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Water Resources Data Georgia, Water Year 1981

(U.S.) Geological Survey
Doraville, GA

Jun 82

U.S. Department of Commerce
National Technical Information Service
NTIS

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Water Resources Data Georgia

Water Year 1981

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Prepared in cooperation with the State of Georgia
and with other agencies

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U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

CALENDAR FOR WATER YEAR 1981

1980

OCTOBER

S	M	T	W	T	F	S
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1981

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SEPTEMBER

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U.S. DEPARTMENT OF THE INTERIOR
March 3, 1849

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Water Resources Data
Georgia
Water Year 1981

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-81-1
Prepared in cooperation with the State of Georgia
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For information on the water program in Georgia write to
District Chief, Water Resources Division
U.S. Geological Survey
6481 Peachtree Industrial Boulevard, Suite B
Doraville, Georgia 30360

1982

PREFACE

This report was prepared by personnel of the Georgia district of the Water Resources Division of the U.S. Geological Survey under the supervision of J. T. Armbruster, District Chief, and James L. Cook, Regional Hydrologist, Southeastern Region.

This report is one of a series issued State by State. General direction for the series is by Philip Cohen, Chief Hydrologist, U.S. Geological Survey, and James E. Biesecker, Assistant Chief Hydrologist for Scientific Publications and Data Management.

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Water resources data for the 1981 water year for Georgia consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and ground-water levels. This report contains discharge records of 109 gaging stations; stage for 10 gaging stations; stage and contents for 17 lakes and reservoirs; water quality for 22 continuous stations, 131 periodic stations and miscellaneous sites; peak stage and discharge only for 106 crest-stage partial-record stations and 4 miscellaneous sites; measurements of discharge at 25 low-flow partial-record stations and 57 miscellaneous sites; and water levels of 28 observation wells. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Georgia.

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INTRODUCTION

Water resources data for the 1981 water year for Georgia consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and ground-water levels. This report contains discharge records for 109 gaging stations; stage for 10 gaging stations; stage and contents for 17 lakes and reservoirs; water quality for 22 continuous stations, 131 periodic stations and miscellaneous sites; peak stage and discharge only for 106 crest-stage partial-record stations and 4 miscellaneous sites; measurements of discharge at 25 low-flow partial-record stations and 57 miscellaneous sites; and water levels of 28 observation wells. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Georgia.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface-Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report GA-81-1." These water-data reports are for sale, in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (404) 221-4858.

COOPERATION

The U.S. Geological Survey and organizations of the State of Georgia have had cooperative agreements for the systematic collection of streamflow records since 1896, and for water-quality records since 1937. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Georgia Department of Natural Resources, Joe D. Tanner, Commissioner, through the Division of Environmental Protection, J. Leonard Ledbetter, Director.
Georgia Department of Transportation, Thomas D. Moreland, Commissioner.

Assistance in the form of funds and/or services was given by the following Federal agencies:

Corps of Engineers, U.S. Army
Environmental Protection Agency
Federal Highway Administration, U.S. Department of Transportation
Tennessee Valley Authority
National Weather Service, NOAA, U.S. Department of Commerce

The following organizations aided in collecting records:

Georgia Power Company
Alabama Power Company
Crisp County Power Commission
Bibb County
Chatham County
Glynn County
Columbus
Albany Water, Gas and Light Commission
Clayton County Water Authority
Macon-Bibb County Water & Sewerage Authority
City of Brunswick
City of Covington
City of Valdosta

HYDROLOGIC CONDITIONS

Streamflow

Annual runoff for the water year was well below normal throughout the State. The ratio of 1981 water-year runoff to long-term average runoff for unregulated streams having more than 5 years of streamflow record ranged from about 0.7 at Upatoi Creek near Columbus to 0.1 at Penholoway Creek near Jesup.

Monthly mean runoff in the northern part of the State was near normal in October and June and below normal for the remainder of the year. In the central part, monthly mean runoff was slightly above normal in February and below normal for the remainder of the year. In the south, monthly mean runoff was below normal the entire year.

An extended period of below normal runoff began during the 1980 water year and continued throughout the 1981 water year. Streamflow rates during June-September were the lowest in many basins since the extreme drought of 1954. Many streams that were not significantly affected by flow augmentation or withdrawal experienced daily minimum flows equivalent to 10- to 30-year recurrence intervals except northwest Georgia, where streams did not recede to these extremely low flows. The central part of the State experienced the most notable low flows. For instance, the minimum daily flow at the Flint River at Montezuma was the lowest recorded for its 59-year period of operation. The 1980-81 drought is the subject of a report being prepared by the U.S. Geological Survey.

The extended period of deficient streamflows throughout the State caused most major reservoirs to recede dramatically. Lake Sidney Lanier, a large multipurpose reservoir, reached its lowest level of record for the season in March, and remained below previous low seasonal levels through September. On September 30, the lake was 1.6 feet below the lowest level of record for that date and was only 1.7 feet above its lowest level since first filling in 1957.

Very little flooding of any significance occurred in the State during the year. The most notable storm occurred on April 1 in the west-central part of the State. The National Weather Service station at Columbus recorded a 24-hour rainfall total of 5.7 inches. The resulting floods on several small streams in this area reached peak discharges of up to 40-year recurrence intervals. The previous recorded maximum stage for Upatoi Creek near Columbus, a gaging station in operation since 1968, was exceeded by about 5.3 feet as a result of this storm.

On February 10-11, heavy rain fell across the State with the largest amounts occurring across the central part, where 48-hour rainfall totals of up to 6.6 inches were recorded. Flooding on small streams in the central part, although not severe, did reach peak discharges of up to 7-year recurrence intervals. Streams outside the area of heaviest rainfall experienced peak flows that were below 2-year recurrence intervals.

Figure 1 shows monthly and yearly streamflows for the 1981 water year at three representative long-term gaging stations and the average monthly and yearly streamflows for the period 1951-80.

Water Quality

The chemical quality of surface water in Georgia during the 1981 water year showed little change from recent years. This assessment is based upon a comparison of mean values of selected water-quality parameters sampled during the 1981 water year versus the mean values for a specified sample period prior to this year. Thirteen water-quality sampling stations were selected for this comparison and the results are presented in table 1. For consistency, no continuous water-quality monitor data were included in the parameter statistics shown in table 1.

Alkalinity, pH, and nutrient concentrations for the 1981 water year are comparable to period-of-record averages. The low pH values for the Suwannee River at Fargo are typical of streams draining swamps and bogs. Mean specific conductance at many stations, presented in table 1, were much higher in 1981 than for the period of record. Increases in conductance indicate higher dissolved-solids concentrations, which were most likely the result of the extreme low flows experienced in most of Georgia during the year.

Pesticide residues were not detected in water samples taken at the Savannah River near Clyo, Falling Creek near Juliette, and the St. Marys River near Macclenny, Fla. Trace metal concentrations in water samples collected at five National Stream Quality Accounting Network stations and one Hydrologic Bench-Mark station were much less than the critical levels permitted for various beneficial uses.

Ground Water

Ground-water levels were generally well below normal throughout the State during the 1981 water year. In the northern part of the State, levels in the crystalline rock area were from 1 to 2 feet below normal in the fall and about 4 feet below normal during the rest of the year. Levels were about 1 foot below previous daily record lows from May through August.

Water levels declined significantly in the principal artesian aquifer in the southwestern part of the State. In the Dougherty County index well, the water level was 2.1 feet below normal on October 1, declined to a maximum of 14.9 feet below normal on April 16, and was 10.7 feet below normal on September 30. Levels were about 1 foot below previous daily record lows from May through September.

In the Savannah area, ground-water levels in the principal artesian aquifer were only slightly lower in 1981 than in 1980. However, levels were from 1 to 3 feet below previous daily record lows during much of the water year in other areas along the coast.

More information concerning water-level fluctuations in the State can be found in open-file reports entitled, "Ground-Water Data for Georgia, 1980," which includes calendar year 1980, and "Ground-Water Data for Georgia, 1981," which includes calendar year 1981.

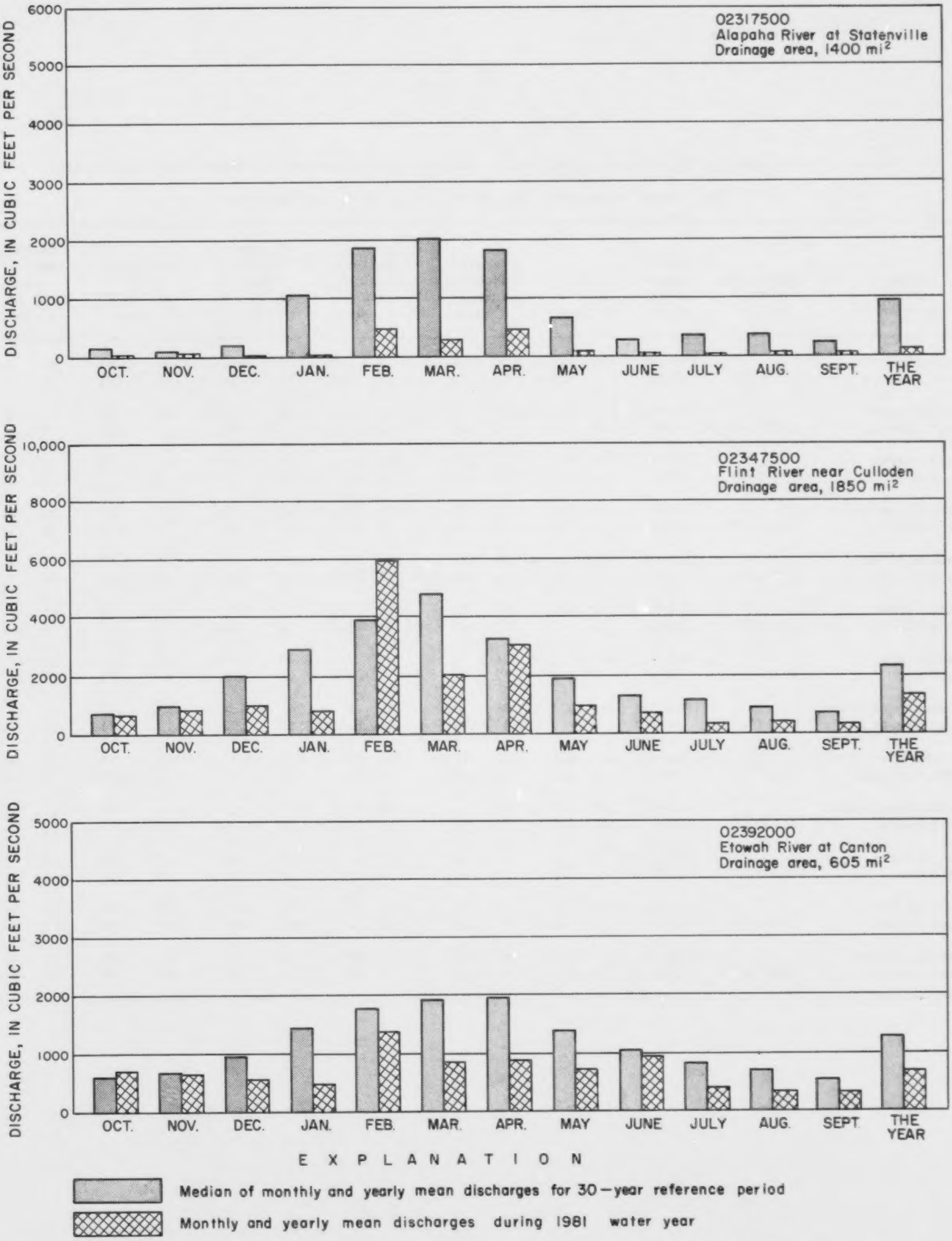

Figure 1.—Comparison of discharge at three representative long-term gaging stations during 1981 water year with median discharge for 30-year reference period.

Table 1.—Water-quality characteristics of Georgia surface water at selected periodic sampling stations

[N, number of samples; mean pH calculated from antilogarithms]

Stream and location	Downstream order number	Sample period (water) years)	pH (units) N	pH (units) Mean	Specific conductance (umhos) N	Specific conductance (umhos) Mean	Alkalinity (mg/L as $CaCO_3$) N	Alkalinity (mg/L as $CaCO_3$) Mean	Nitrogen, NO_2+NO_3 total (mg/L as N) N	Nitrogen, NO_2+NO_3 total (mg/L as N) Mean	Phosphorus, total (mg/L as P) N	Phosphorus, total (mg/L as P) Mean	Carbon, organic total (mg/L as C) N	Carbon, organic total (mg/L as C) Mean
Chattooga River near Clayton	02177000	1968-80 1981	102 8	6.5 6.9	90 11	13 15	79 11	5.0 5.6	66 11	0.03 .04	66 10	0.03 .02	63 11	2.3 1.4
Ogeechee River near Eden	02202500	1974-80 1981	116 12	6.4 7.1	107 12	71 97	94 12	22 26	82 12	.10 .13	82 12	.05 .06	47 8	9.1 6.9
Falling Creek near Juliette	02212600	1968-80 1981	141 12	6.6 7.3	139 12	116 119	125 12	51 44	53 12	.06 .04	54 12	.13 .02	12 9	3.3 3.0
North Oconee River at Athens	02217740	1974-80 1981	65 9	6.9 7.0	65 12	53 58	53 12	21 21	65 12	.33 .29	65 12	.05 .04	64 12	3.1 1.9
Altamaha River near Everett City	02226160	1970-80 1981	87 12	6.6 7.0	88 12	107 166	100 12	25 33	87 12	.24 .33	87 12	.07 .08	77 12	8.6 7.0
Satilla River at Atkinson	02228000	1968-80 1981	120 12	4.8 5.3	112 12	51 80	77 12	4.0 6.0	87 12	.09 .20	88 12	.08 .17	63 12	18 18
Suwannee River at Fargo	02314500	1968-80 1981	102 10	4.2 3.9	88 12	48 54	48 4	1.0 1.0	63 11	.05 .02	63 12	.03 .03	60 12	33 36
Withlacoochee River near Clyattsville	02318960	1974-80 1981	67 8	6.2 7.0	66 12	110 179	53 12	34 67	67 12	.27 .38	67 12	.17 .21	66 12	11 7.1
Chattahoochee River near Fairburn	02337170	1968-80 1981	240 11	6.4 6.8	272 12	77 98	84 12	20 22	258 12	.53 .76	258 12	.45 .68	239 12	6.1 5.4
Kinchafoonee Creek at Preston	02350600	1969-80 1981	41 10	6.5 6.5	34 13	33 33	35 13	9.0 9.2	30 13	.13 .24	31 13	.04 .04	29 13	4.5 3.5
Flint River at Albany	02352500	1968-80 1981	78 3	7.0 7.1	63 5	65 88	59 5	22 27	40 5	.24 .26	40 5	.14 .03	35 5	4.7 3.5
Conasauga River near Dalton	02384748	1974-80 1981	69 9	7.4 7.5	68 12	101 119	56 12	46 53	68 11	.20 .19	68 10	.04 .06	68 11	[illegible]1 [illegible]0
Conasauga River near Resaca	02387050	1974-80 1981	66 9	7.3 7.4	66 11	162 189	54 12	60 67	66 11	.45 .52	65 12	.49 .54	66 12	6.3 5.0

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, other perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organisms which is counted by using a microscope and grid or counting cell. Many plankton organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/s, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved is that material in a representative water sample which passes through a 0.45 um membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Land-surface datum (lsd) is a reference elevation that is approximately at land surface at a well from which depth or height to water surface is measured.

Micrograms per gram (ug/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification		
Clay..........	0.00024 - 0.004	Sedimentation
Silt..........	.004 - .062	Sedimentation
Sand..........	.062 - 2.0	Sedimentation or sieve
Gravel........	2.0 - 64.0	Sieve

The particle-size distribution given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants, respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Recoverable from bottom material is the amount of a given constituent in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same stream with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow or a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Surface area of a lake is that area outlined on the latest U.S. Geological Survey topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 um membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent of the constituent present in the sample). To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly by difference, based on determination of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 um membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determination of (1) dissolved and (2) total concentrations of the constituent.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indentation represents one rank. This downstream order and system of indentation shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each surface-water hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 03041000, which appears just to the left of the station name, includes the 2-digit part number "03" plus the 6-digit downstream order number "041000."

NUMBERING SYSTEM FOR WELLS

Downstream order station numbers are not assigned to wells. The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well and an unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits is a sequential number for wells within a 1-second grid. In the event that several wells are within the same 1-second grid, a different sequential number, such as "01", "02", etc., is assigned to each well to insure an unique station number. See figure 2 below.

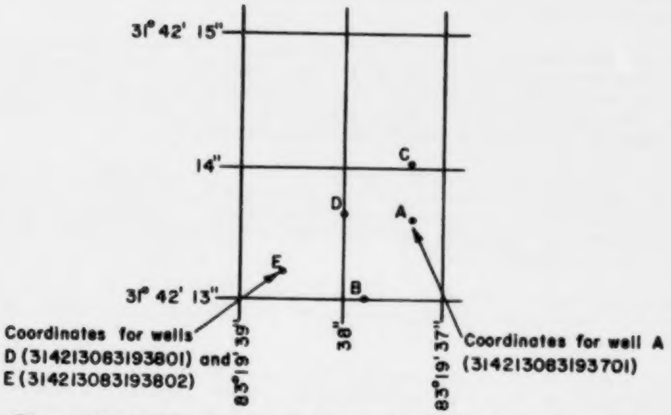

Figure 2.—System for numbering wells (latitude and longitude).

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are colleted to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data area also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-STAGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes and reservoirs. In addition, observation of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water-Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curve are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents from which daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior to subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the U.S. Army Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed

"REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years, only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS."

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with "EXTREMES FOR THE CURRENT YEAR." If they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream from which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large uncontributing areas or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs, a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations and miscellaneous sites follow the information for continuous-record stations. Data for partial-record discharge stations and miscellaneous sites are presented in four tables. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of discharge measurements made at miscellaneous sites, the third is a table of annual maximum stage and discharge at crest-stage stations, and the fourth is a table of peak stage and discharge at miscellaneous sites. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversion, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as observation of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentrations of solute at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, published records consist of daily maximum and minimum values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. Mean values and more detailed records (hourly values) may be obtained from the district office.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharge.

At stations where recording instruments are used, mean daily temperatures and/or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of data

Ground-water level data from a network of observation wells in Georgia are published herein. This basic network contains observations wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude as shown in figure 1, and (2) a local number that is provided for local needs.

Water-level measurements in this report are given in feet to either National Geodetic Vertical Datum of 1929 (NGVD), land-surface datum, or altitude. NGVD is a datum plane on which the national network of precise level lines have been tied; land-surface datum is approximated by less than precise levels; altitude of the land surface is the approximated elevation obtained from a topograhic map. The NGVD, land-surface datum, or altitude is given in the well description. The height of the measuring point above or below land surface is given in each well description. Wells for which water-level data are included in this report are equipped with continuous recorders and daily mean water levels are reported. Low- and high-water levels included at the bottom of tables are extremes for data in the table only.

Water levels are reported to an many significant figures as can be justified by the local conditions. Accordingly, most measurements are reported to a hundredth of a foot.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revisions and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

1-D1. Water temperature-influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1, 1975. 65 pages.

1-D2. Guidelines for collection and field analysis of ground-water samples for selected unstable constituents, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. Application of surface geophysics to ground-water investigations, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. McCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. General field and office procedures for indirect discharge measurements, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. Measurement of peak discharge at width contractions by indirect methods, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS-TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. General procedure for gaging streams, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A11. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-B1. Aquifer-test design, observation, and data analysis, by R. W. Stallman: USGS--TWRI Book 3, chapter B1. 1971. 26 pages.

3-B2. Introduction to ground-water hydraulics, a programmed text for self-instruction, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. Field methods for measurement of fluvial sediment, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. Computation of rate and volume of stream depletion by wells, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. Methods for determination of inorganic substances in water and fluvial sediments, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. Methods for analysis of organic substances in water, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 12 pages.

5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Bopk 5, Chapter A4. 1977. 332 pages.

5-A5. Methods for determination of radioactive substances in water and fluvial sediments, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-C1. Laboratory theory and methods for sediment analysis, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

7-C1. Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. Computer model of two-dimensional solute transport and dispersion in ground water, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

8-A1. Methods of measuring water levels in deep wells, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.

8-B2. Calibration and maintenance of vertical-axis type current meters, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

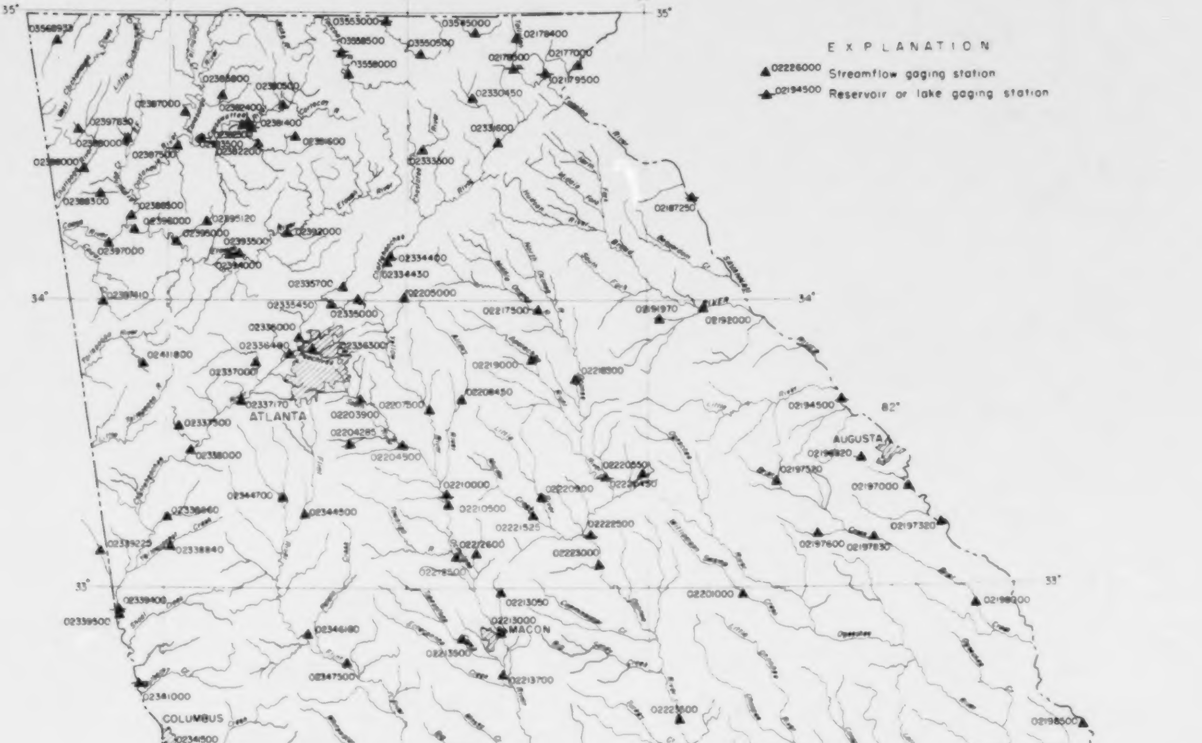
EXPLANATION
▲02226000 Streamflow gaging station
▲02194500 Reservoir or lake gaging station
ATLANTA
AUGUSTA
MACON
COLUMBUS
SAVANNAH
BRUNSWICK
ATLANTIC OCEAN
35°
34°
33°
32°
31°
85°
84°
83°
82°
81°
10 0 10 20 30 40 MILES
10 0 10 20 30 40 50 60 KILOMETERS

Figure 3.—Location of gaging stations.

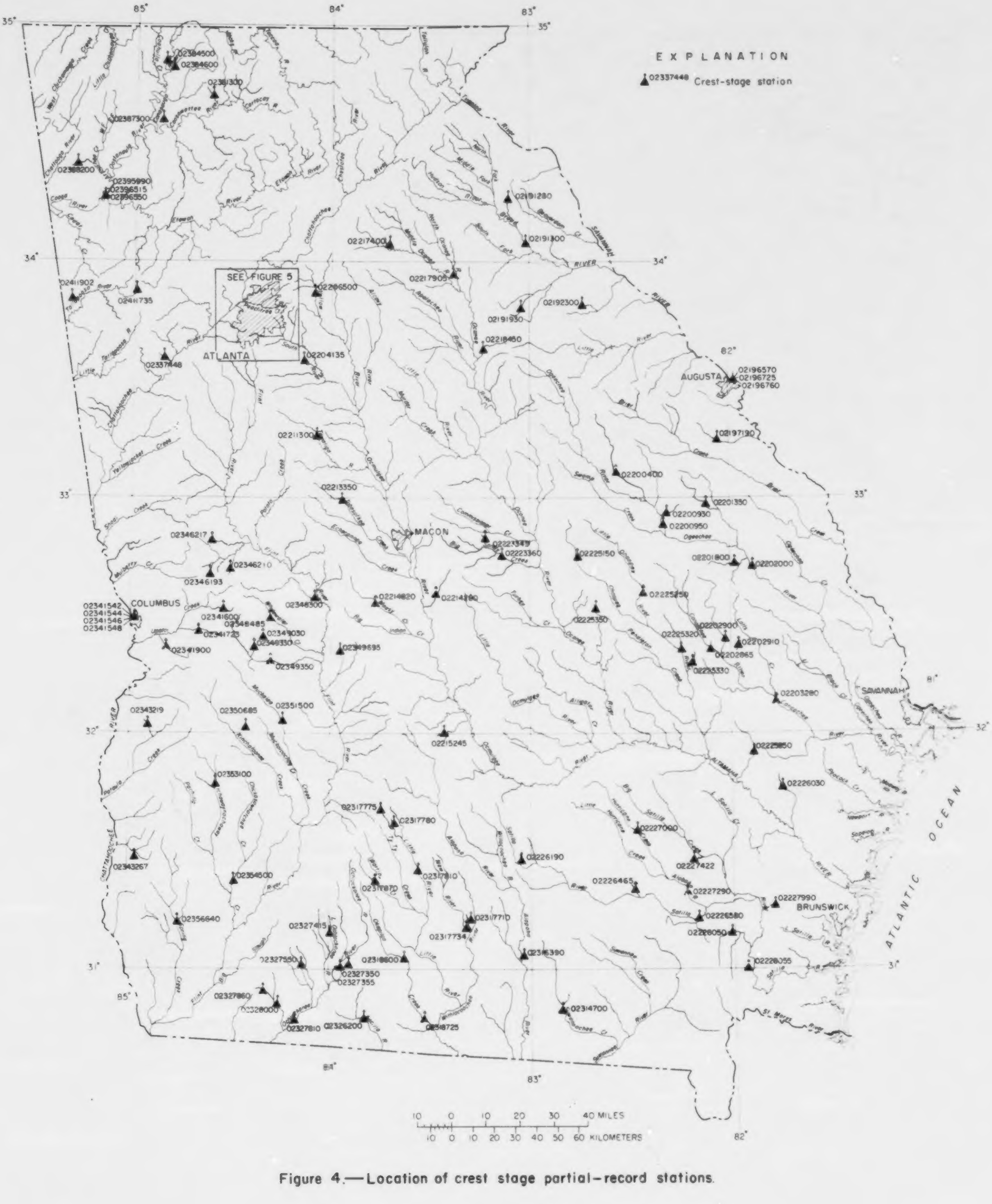
EXPLANATION
02337448 Crest-stage station
85°
84°
83°
82°
81°
35°
34°
33°
32°
31°
SEE FIGURE 5
ATLANTA
AUGUSTA
MACON
COLUMBUS
SAVANNAH
BRUNSWICK
ATLANTIC OCEAN
02384500
02384600
02381300
02387300
02388200
02395990
02396515
02396550
02411902
02411735
02337448
02206500
02204135
02217400
02217905
02191280
02191300
02191930
02192300
02218450
02196570
02196725
02196760
02197190
02200400
02201350
02200930
02200950
02201800
02202000
02211300
02213350
02223349
02223360
02225150
02225250
02225350
02346217
02346210
02346193
02341542
02341544
02341546
02341548
02341600
02348485
02348300
02214820
02214280
02341723
02349030
02349330
02341900
02349350
02349695
02202900
02202910
02202865
02225320
02225330
02203280
02343219
02350685
02351500
02215245
02225850
02226030
02353100
02317775
02317780
02227000
02227422
02343267
02354500
02226190
02317870
02317810
02226465
02227290
02227990
02356640
02327415
02317710
02317734
02226580
02226050
02327550
02327350
02327355
02318800
02316390
02226055
02327860
02328000
02327810
02326200
02318725
02314700
10 0 10 20 30 40 MILES
10 0 10 20 30 40 50 60 KILOMETERS

Figure 4.—Location of crest stage partial-record stations.

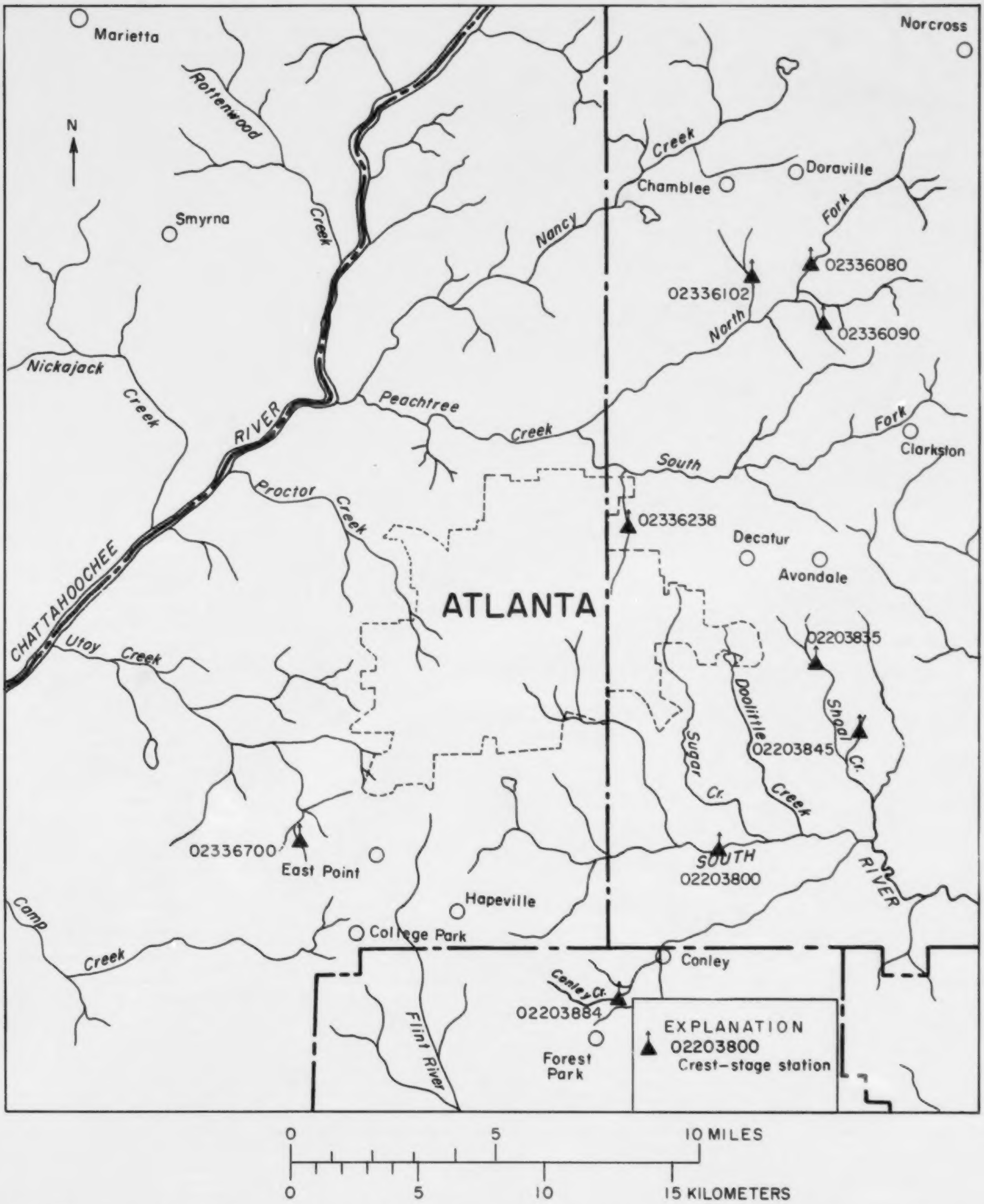
Marietta
Norcross
N
Rottenwood
Creek
Smyrna
Creek
Chamblee
Doraville
Nancy
Fork
02336080
02336102
North
02336090
Nickajack
Creek
RIVER
Peachtree
Creek
Fork
Clarkston
South
Proctor
Creek
02336238
Decatur
Avondale
CHATTAHOOCHEE
ATLANTA
Utoy
Creek
02203835
Shoal
Cr.
Doolittle
02203845
Sugar
Cr.
Creek
02336700
East Point
SOUTH
02203800
RIVER
Hapeville
Camp
Creek
College Park
Conley
Conley Cr.
02203884
Flint River
Forest Park
EXPLANATION
02203800
Crest-stage station
0
5
10 MILES
0
5
10
15 KILOMETERS

Figure 5.—Location of crest stage partial-record stations in Atlanta metropolitan area.

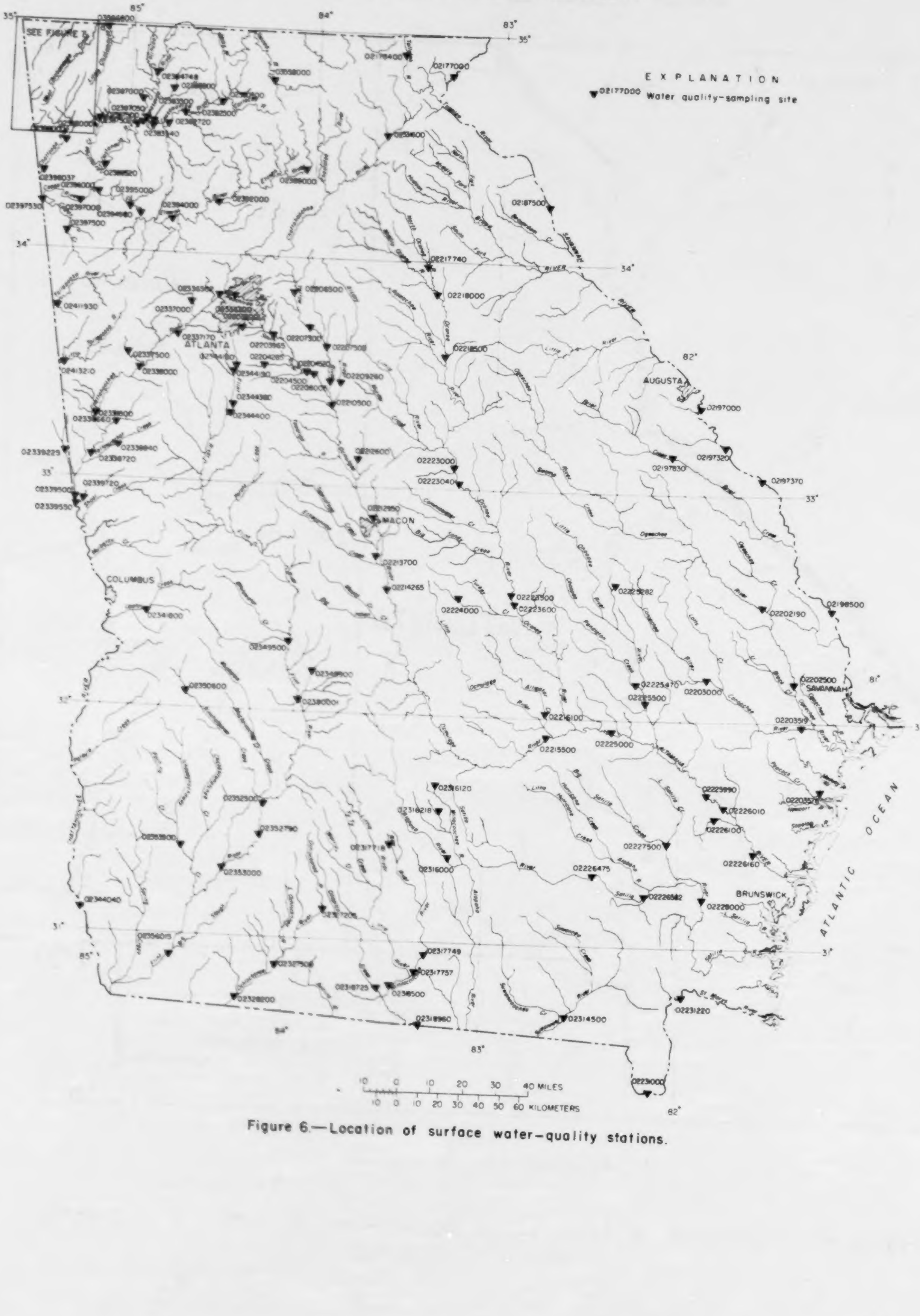
SEE FIGURE 7
EXPLANATION
▼02177000 Water quality-sampling site
35°
85°
84°
83°
82°
81°
34°
33°
32°
31°
ATLANTA
AUGUSTA
MACON
COLUMBUS
SAVANNAH
BRUNSWICK
ATLANTIC OCEAN
02178400
02177000
02331600
02187500
02217740
02218000
02218500
02197000
02197320
02197830
02197370
02223000
02223040
02213700
02214265
02223500
02223600
02224000
02225282
02198500
02202190
02202500
02203519
02203000
02225470
02225500
02216100
02215500
02225000
02226010
02226100
02226160
02227500
02226475
02226582
02228000
02231220
02314500
02318960
02317749
02317757
02318500
02318725
02327500
02328200
02316000
02316120
02349500
02341800
02350600
02352500
02352790
02353000
02353500
02344040
02356015
02380001
02388900
02210500
02212600
02344400
02344350
02339225
02338720
02339720
02339500
02339550
02411930
02413210
02337000
02337170
02337500
02338000
02397530
02397500
02398037
02395000
02394000
02392000
02389000
02383500
02330000
02207300
02207500
02209260
10 0 10 20 30 40 MILES
10 0 10 20 30 40 50 60 KILOMETERS

Figure 6.—Location of surface water-quality stations.

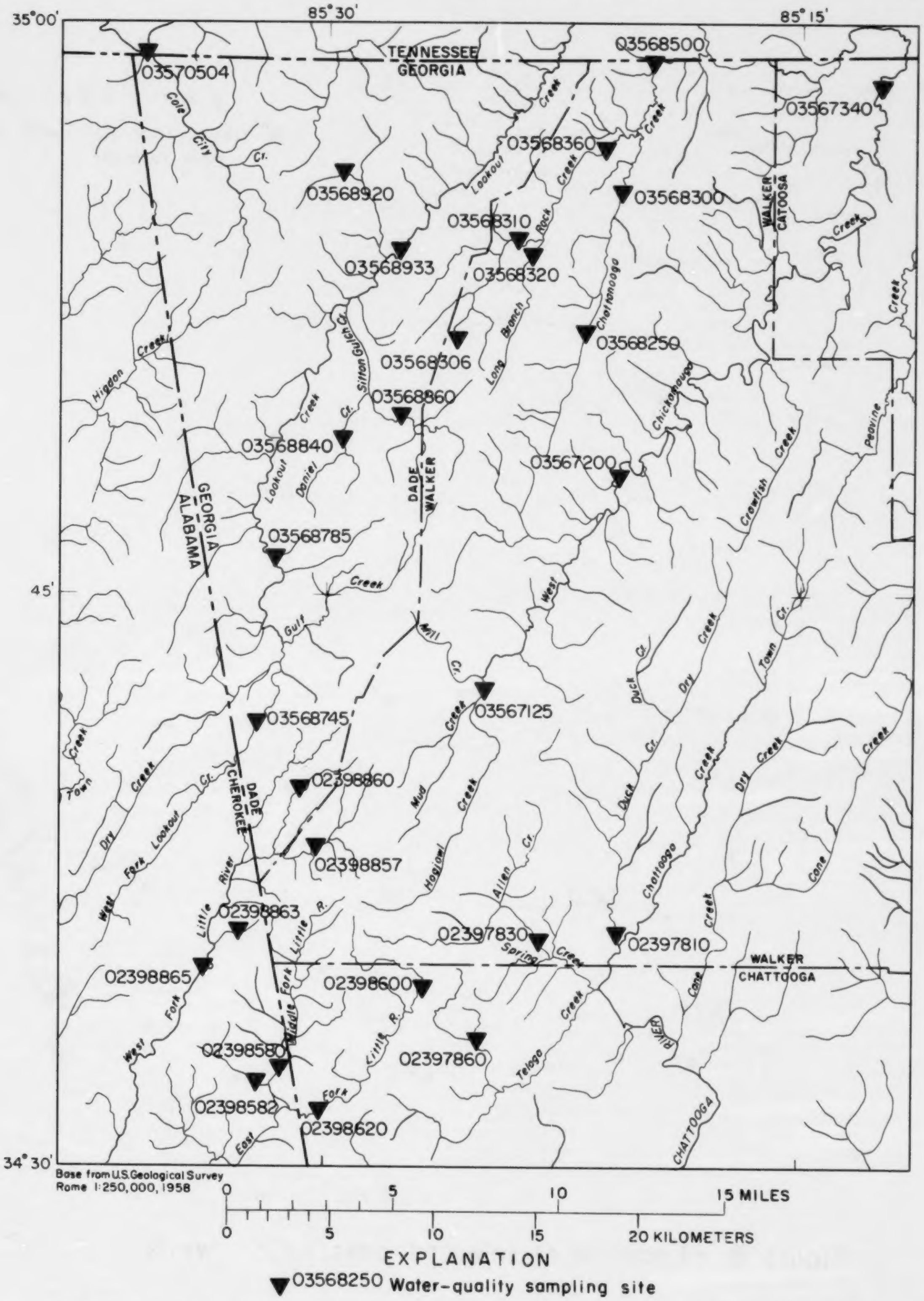
35°00'
85°30'
85°15'
45'
34°30'
TENNESSEE
GEORGIA
GEORGIA
ALABAMA
DADE
WALKER
WALKER
CATOOSA
DADE
CHEROKEE
WALKER
CHATTOOGA
03570504
03568500
03567340
03568360
03568300
03568920
03568310
03568320
03568933
03568250
03568306
03568860
03568840
03567200
03568785
03567125
03568745
02398860
02398857
02398863
02398865
02397830
02397810
02398600
02397860
02398580
02398582
02398620
Cole City Cr.
Lookout Creek
Rock Creek
Chattanooga Creek
Long Branch
Sitton Gulch Cr.
Higdon Creek
Lookout Creek
Daniel Cr.
Gulf Creek
Mill Cr.
West Chickamauga
Crawfish Creek
Peavine Creek
Town Cr.
Duck Cr.
Dry Creek
Town Creek
Dry Creek
West Fork Lookout Cr.
Little River
Little R.
Mud Creek
Hogjowl Creek
Allen Cr.
Spring Creek
Chattooga River
Cane Creek
Teloga Creek
West Fork Little R.
Middle Fork
East Fork Little R.
CHATTOOGA
Base from U.S. Geological Survey Rome 1:250,000, 1958
0 5 10 15 MILES
0 5 10 15 20 KILOMETERS
EXPLANATION
03568250 Water-quality sampling site

Figure 7.—Location of surface water-quality stations in northwest Georgia.

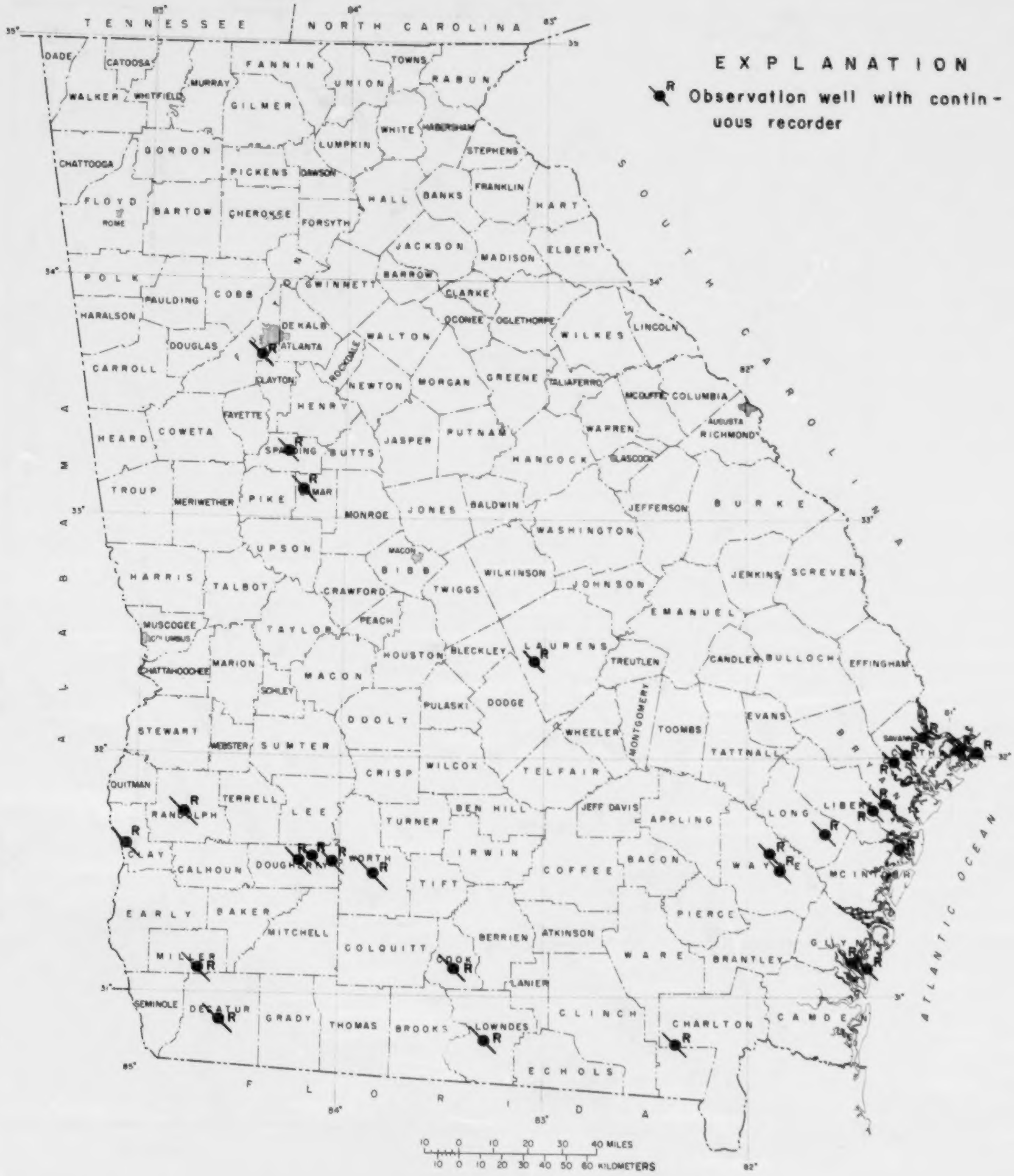
EXPLANATION
R Observation well with continuous recorder
TENNESSEE
NORTH CAROLINA
SOUTH CAROLINA
ALABAMA
FLORIDA
ATLANTIC OCEAN
35°
34°
33°
32°
31°
85°
84°
83°
82°
81°
DADE
CATOOSA
WALKER
WHITFIELD
MURRAY
FANNIN
UNION
TOWNS
RABUN
GILMER
LUMPKIN
WHITE
HABERSHAM
STEPHENS
CHATTOOGA
GORDON
PICKENS
DAWSON
HALL
BANKS
FRANKLIN
HART
FLOYD
ROME
BARTOW
CHEROKEE
FORSYTH
JACKSON
MADISON
ELBERT
POLK
PAULDING
COBB
GWINNETT
BARROW
CLARKE
HARALSON
OCONEE
OGLETHORPE
WILKES
LINCOLN
DOUGLAS
DE KALB
ATLANTA
WALTON
CARROLL
CLAYTON
ROCKDALE
NEWTON
MORGAN
GREENE
TALIAFERRO
McDUFFIE
COLUMBIA
AUGUSTA
RICHMOND
FAYETTE
HENRY
HEARD
COWETA
SPALDING
BUTTS
JASPER
PUTNAM
WARREN
HANCOCK
GLASCOCK
TROUP
MERIWETHER
PIKE
LAMAR
MONROE
JONES
BALDWIN
JEFFERSON
BURKE
WASHINGTON
UPSON
MACON
BIBB
HARRIS
TALBOT
CRAWFORD
TWIGGS
WILKINSON
JOHNSON
JENKINS
SCREVEN
EMANUEL
MUSCOGEE
COLUMBUS
TAYLOR
PEACH
HOUSTON
BLECKLEY
LAURENS
TREUTLEN
CANDLER
BULLOCH
EFFINGHAM
CHATTAHOOCHEE
MARION
MACON
SCHLEY
PULASKI
DODGE
MONTGOMERY
EVANS
STEWART
WEBSTER
SUMTER
DOOLY
WHEELER
TOOMBS
SAVANNAH
CHATHAM
BRYAN
TATTNALL
QUITMAN
CRISP
WILCOX
TELFAIR
RANDOLPH
TERRELL
LEE
TURNER
BEN HILL
JEFF DAVIS
APPLING
LONG
LIBERTY
CLAY
CALHOUN
DOUGHERTY
WORTH
IRWIN
COFFEE
BACON
WAYNE
McINTOSH
TIFT
EARLY
BAKER
MITCHELL
PIERCE
COLQUITT
BERRIEN
ATKINSON
MILLER
COOK
WARE
BRANTLEY
GLYNN
LANIER
SEMINOLE
DECATUR
GRADY
THOMAS
BROOKS
LOWNDES
CLINCH
CHARLTON
CAMDEN
ECHOLS
10 0 10 20 30 40 MILES
10 0 10 20 30 40 50 60 KILOMETERS

Figure 8. - Location of selected observation wells

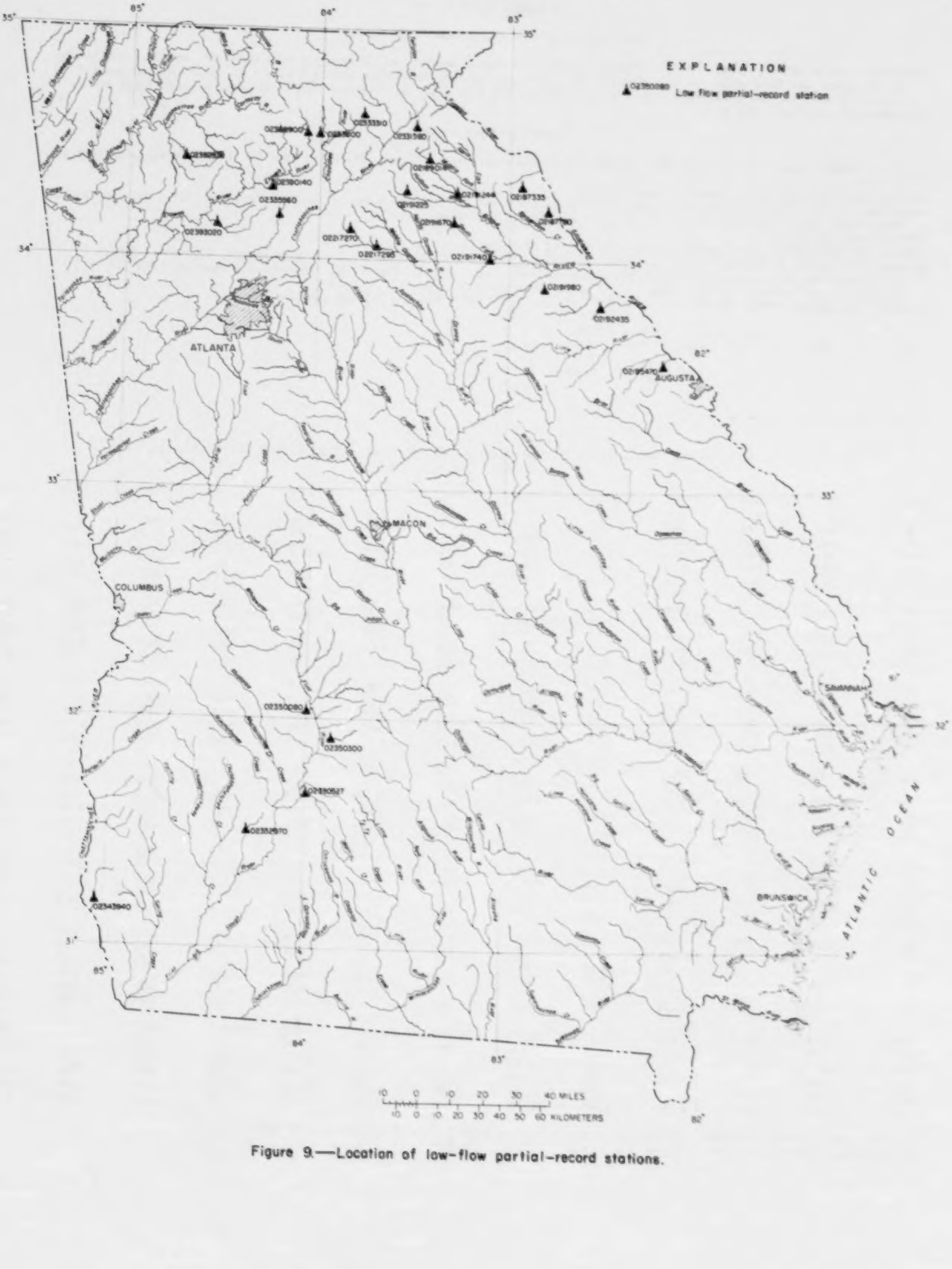
35°
85°
84°
83°
35°
EXPLANATION
02350080 Low flow partial-record station
02333310
02331360
02383020
02380140
02335560
02217270
02217295
02191740
02187335
02191980
02192435
02195470
34°
ATLANTA
AUGUSTA
82°
33°
MACON
COLUMBUS
SAVANNAH
81°
32°
02350080
02350300
02352970
02343940
BRUNSWICK
ATLANTIC OCEAN
31°
85°
84°
83°
82°
10 0 10 20 30 40 MILES
10 0 10 20 30 40 50 60 KILOMETERS

Figure 9.—Location of low-flow partial-record stations.

SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.

LOCATION.--Lat 34°48'50", long 83°18'22", Oconee County, S.C.-Rabun County, Ga., Hydrologic Unit 03060102, on left bank 150 ft (46 m) downstream from bridge on U.S. Highway 76, 2.8 mi (4.5 km) upstream from Stekoa Creek, 7 mi (11.3 km) southeast of Clayton, 9 mi (14.5 km) downstream from War Woman Creek, and 9 mi (14.5 km) upstream from confluence with Tallulah River.

DRAINAGE AREA.--207 mi^2 (536 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1907 to June 1908, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1383: 1940-41, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,165.6 ft (355.28 m) National Geodetic Vertical Datum of 1929. May 1907 to June 1908, nonrecording gage at site 400 ft (122 m) upstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--42 years, 660 ft^3/s (18.7 m^3/s), 43.30 in/yr (1,100 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft^3/s (821 m^3/s) Aug. 30, 1940, gage height, 13.8 ft (4.206 m), from rating curve extended above 4,700 ft^3/s (133 m^3/s) on basis of slope-area measurements at gage heights 9.9 and 13.2 ft (3.018 and 4.023 m); minimum, 88 ft^3/s (2.49 m^3/s) Oct. 8, 12, 13, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,400 ft^3/s (96.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 27	1930	*4120	117	4.41	1.344

Minimum discharge, 129 ft^3/s (3.65 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	585	286	347	203	184	426	656	295	673	346	186	134
2	399	262	319	194	548	404	554	284	704	401	234	144
3	323	249	298	189	409	380	484	279	1080	627	250	137
4	277	257	278	185	253	389	454	274	1210	417	207	283
5	257	265	269	185	278	574	671	272	1010	352	192	371
6	252	239	260	199	258	468	665	283	814	323	188	1100
7	238	229	253	222	246	418	536	332	710	299	194	767
8	228	225	246	213	237	390	490	299	652	279	213	445
9	220	222	244	208	221	373	476	274	583	265	197	302
10	214	220	261	203	273	362	471	287	533	253	220	244
11	208	214	251	199	1750	350	435	895	500	289	200	217
12	198	208	237	197	863	339	417	499	472	265	190	202
13	191	205	231	194	579	331	402	390	468	261	185	192
14	190	209	226	192	487	327	393	351	545	239	180	183
15	190	224	226	190	422	315	405	365	438	224	172	179
16	190	288	221	187	386	311	370	337	411	220	165	235
17	190	257	219	185	396	308	375	315	390	234	160	218
18	209	337	215	184	1010	312	406	310	374	216	190	179
19	302	303	213	182	1470	343	378	339	367	217	180	164
20	244	264	210	181	965	308	370	407	359	205	165	160
21	211	248	205	215	735	289	374	409	359	194	155	157
22	205	238	195	210	619	298	348	340	328	180	150	153
23	199	243	208	194	713	343	364	311	312	170	145	150
24	205	592	211	182	629	317	415	292	300	169	142	146
25	285	539	218	176	548	302	357	280	316	219	139	142
26	296	377	218	173	504	291	334	286	302	209	136	140
27	237	579	215	174	470	283	325	2200	276	201	133	138
28	298	687	211	179	444	275	314	1620	270	273	132	137
29	320	472	205	172	---	272	308	929	272	217	130	132
30	328	390	217	173	---	1240	306	723	271	196	132	129
31	345	---	221	178	---	953	---	677	---	187	135	---
TOTAL	8034	9328	7348	5918	15897	12291	12853	15154	15299	8147	5397	7280
MEAN	259	311	237	191	568	396	428	489	510	263	174	243
MAX	585	687	347	222	1750	1240	671	2200	1210	627	250	1100
MIN	190	205	195	172	184	272	306	272	270	169	130	129
CFSM	1.25	1.50	1.15	.92	2.74	1.91	2.07	2.36	2.46	.27	.84	1.17
IN.	1.44	1.68	1.32	1.06	2.86	2.21	2.31	2.72	2.75	.46	.97	1.31

CAL YR 1980 TOTAL 237001 MEAN 648 MAX 4240 MIN 171 CFSM 3.13 IN 42.59
WTR YR 1981 TOTAL 122946 MEAN 337 MAX 2200 MIN 129 CFSM 1.63 IN 22.09

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 16...	1015	190	7.0	--	21.0	13.0	10.0
NOV 12...	1300	208	6.7	6.8	24.0	10.0	10.8
JAN 15...	1900	190	--	7.0	2.0	1.0	13.2
FEB 12...	0930	877	--	6.2	-3.0	2.0	13.3
MAR 12...	0830	341	6.7	6.7	-.5	6.5	11.2
APR 22...	1545	347	7.2	6.8	20.0	16.5	9.3
MAY 12...	1600	461	6.6	6.6	26.0	18.0	9.5
JUN 17...	1000	385	6.7	7.1	33.0	24.5	8.4
JUL 15...	1345	232	7.4	7.1	29.5	27.5	8.1
AUG 13...	1345	171	--	6.8	30.5	26.0	8.2
SEP 22...	1300	137	7.3	6.8	28.5	19.0	9.2

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 16...	14	2	<5	.3	<30	4.0	<1	<.02	<.020	.02	<.020	<1.0
NOV 12...	15	2	3	.3	<30	5.0	1	<.02	.020	.10	<.020	<1.0
JAN 15...	26	5	<5	.1	<30	9.0	3	.18	<.020	1.20	.020	<1.0
FEB 12...	13	12	10	.6	<30	3.0	18	.04	.020	.10	.030	3.0
MAR 12...	13	7	2	.7	<30	6.0	2	.02	.020	<.50	<.020	<1.0
APR 22...	13	2	2	.7	90	5.0	2	<.02	<.020	<.10	<.020	<1.0
MAY 12...	15	11	10	--	110	7.0	7	.02	<.020	.10	.020	3.0
JUN 17...	13	3	7	.4	<30	5.0	<1	.04	<.020	<.10	--	<1.0
JUL 15...	15	1	--	.6	<30	8.0	2	<.02	<.020	--	<.020	<1.0
AUG 13...	16	2	--	.4	40	5.0	<1	<.02	.020	--	.040	<1.0
SEP 22...	14	2	--	.2	<30	5.0	<1	<.02	<.020	--	<.020	1.0

02178400 TALLULAH RIVER NEAR CLAYTON, GA.
(Hydrologic bench-mark station)

LOCATION.—Lat 34°53'25", long 83°31'50", Rabun County, Hydrologic Unit 03060102, on right bank 100 ft (30 m) downstream from county highway bridge, 120 ft (37 m) downstream from Persimmon Creek, 8 mi (12.9 km) upstream from Burton Dam, and 10.3 mi (16.6 km) west of Clayton.
DRAINAGE AREA.—56.5 mi^2 (146 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—July 1964 to current year.
GAGE.—Water-stage recorder. Datum of gage is 1,868.93 ft (569.650 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).
REMARKS.—Records good.
AVERAGE DISCHARGE.—17 years, 203 ft^3/s (5.75 m^3/s), 48.79 in/yr (1,239 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 8,500 ft^3/s (241 m^3/s) May 28, 1973, gage height, 12.00 ft (3.658 m); minimum discharge, 40 ft^3/s (1.13 m^3/s) Sept. 28-30, 1981.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 1,200 ft^3/s (34.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 27	0700	*1600	45.3	5.35	1.631

Minimum discharge, 40 ft^3/s (1.13 m^3/s) Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	90	103	68	96	133	233	108	366	131	73	46
2	123	83	96	66	250	125	177	104	479	108	111	48
3	100	78	90	65	108	128	159	101	455	115	77	51
4	87	80	86	65	90	166	147	99	486	98	66	105
5	82	74	83	65	88	191	214	96	401	104	63	62
6	76	71	80	64	86	160	178	98	368	100	70	211
7	72	69	77	64	82	146	161	105	290	89	65	121
8	68	68	76	63	85	136	151	93	253	84	63	88
9	65	67	86	63	79	128	158	89	224	80	58	68
10	63	64	129	61	227	123	147	98	203	78	67	58
11	61	62	98	60	580	119	139	144	187	80	63	54
12	58	61	91	60	272	113	133	103	170	78	65	51
13	58	60	87	60	195	109	128	96	159	74	59	49
14	57	60	83	59	162	108	137	94	151	70	55	48
15	57	91	81	59	142	103	128	125	145	69	53	61
16	56	79	80	59	130	107	115	101	137	71	53	96
17	56	85	77	57	177	99	128	97	131	75	53	59
18	83	95	75	57	362	103	143	93	126	77	67	53
19	91	82	74	57	433	98	130	117	122	73	52	51
20	65	77	72	64	309	94	147	128	127	69	51	49
21	60	74	70	85	243	92	139	112	123	64	50	47
22	59	71	69	68	209	107	126	101	112	61	48	46
23	58	88	70	64	229	108	155	96	107	60	49	45
24	59	168	86	61	187	100	168	93	109	62	49	44
25	101	119	88	60	169	92	144	108	105	68	46	43
26	73	103	72	60	154	90	134	102	97	76	46	43
27	67	187	72	64	143	89	126	944	93	74	45	42
28	125	154	72	62	136	87	120	484	92	69	45	41
29	91	127	71	59	---	87	119	297	90	65	45	41
30	122	112	73	66	---	435	114	230	95	61	45	41
31	102	---	69	62	---	239	---	315	---	62	58	---
TOTAL	2467	2699	2528	1947	5423	4015	4398	4971	6003	2445	1810	1862
MEAN	79.6	90.0	81.5	62.8	194	130	147	160	200	78.9	58.4	62.1
MAX	172	187	129	85	580	435	233	944	486	131	111	211
MIN	56	60	69	57	79	87	114	89	90	60	45	41
CFSM	1.41	1.59	1.44	1.11	3.43	2.30	2.60	2.83	3.54	1.40	1.03	1.10
IN.	1.62	1.78	1.66	1.28	3.57	2.64	2.90	3.27	3.95	1.61	1.19	1.23

CAL YR 1980 TOTAL 67724 MEAN 185 MAX 1550 MIN 50 CFSM 3.27 IN 44.59
WTR YR 1981 TOTAL 40568 MEAN 111 MAX 944 MIN 41 CFSM 1.97 IN 26.71

02178400 TALLULAH RIVER NEAR CLAYTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to September 1968, December 1969 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: September 1964 to September 1979.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 28.0°C July 28, 1966; minimum, 0.0°C on several days during most years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT								
23...	1200	59	20	16	6.8	6.7	11.0	10.3
AUG								
19...	1130	53	19	21	7.3	7.5	18.5	8.0

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT										
23...	3	.90	5	.00	1.3	.5	1.2	.6	10	1.0
AUG										
19...	5	1.3	6	.00	1.4	.5	1.4	.6	--	.6

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
23...	.6	.0	10	23	3.7	.02	.040	.02	.06	.00
AUG										
19...	1.4	<.1	10	69	9.9	.07	<.010	--	.32	--

DATE	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT										
23...	.06	.08	.010	.010	10	0	0	2	0	0
AUG										
19...	<.10	.39	<.010	<.010	10	0	1	1	10	2

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
23...	60	2	0	8	<.1	<.1	0	4	1.3
AUG									
19...	50	9	3	7	.2	.2	<1	4	.9

02187500 SAVANNAH RIVER NEAR IVA, S.C.

LOCATION.--Lat 34°15'20", long 82°44'42", Anderson County, S.C.-Elbert County, Ga., Hydrologic Unit 03060103, on left bank at downstream side of bridge on State Highway 184, 0.5 mi (0.8 km) upstream from Little Generostee Creek, 5.8 mi (9.3 km) southwest of Iva, and at mile 296.5 (477.1 km).

DRAINAGE AREA.--2,231 mi^2 (5,778 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1949 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 432.26 ft (131.753 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records fair. Flow regulated by Lake Burton, Mathis Reservoir and Hartwell Lake. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178300, 02179500, and 02187250.)

AVERAGE DISCHARGE.--32 years, 4,486 ft^3/s (127 m^3/s), 27.31 in/yr (694 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,400 ft^3/s (1,540 m^3/s) Mar. 12, 1952, gage height, 12.74 ft (3.883 m); minimum, 75 ft^3/s (2.12 m^3/s) Oct. 24, 1961; minimum daily discharge, 78 ft^3/s (2.21 m^3/s) Oct. 23, 24, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,800 ft^3/s (787 m^3/s) July 24, gage height, 7.99 ft (2.435 m); minimum daily discharge, 134 ft^3/s (3.79 m^3/s) Aug. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2150	926	2920	2470	1280	325	1740	3740	1650	1520	159	4760
2	2730	375	4290	2490	2970	954	1690	3050	2700	1580	134	4710
3	2610	430	6570	1030	5800	1740	1720	787	2750	1570	1260	2730
4	1500	1260	5500	255	8130	1780	891	1340	3450	690	4560	3410
5	463	1830	3540	6400	3400	1850	320	2900	4450	245	7300	1510
6	445	1670	873	10400	2820	2270	847	4230	350	2640	8040	250
7	706	1450	629	3920	722	899	1720	2900	234	5830	6910	224
8	981	1040	935	2680	255	315	1740	1790	867	3450	1560	2610
9	1150	463	2080	2150	2290	1600	1720	1780	2570	4530	502	3240
10	1630	395	4650	991	2750	3000	1720	214	2940	1960	5280	3030
11	1420	714	6570	360	3590	3000	926	763	1700	644	4220	2870
12	463	2000	5430	6120	6480	3450	290	1850	1440	139	5490	1280
13	415	3180	622	5880	4390	2970	4960	2400	652	4600	5350	224
14	954	3180	255	2100	873	882	5320	2950	195	3850	6430	1750
15	1870	945	2080	2150	365	290	1910	2450	2220	4270	5600	2620
16	2540	335	1980	3740	1350	1580	1620	1320	2940	5760	2060	2480
17	2040	6000	2270	1070	1870	3100	2850	250	2810	2060	4550	2520
18	1430	3260	3150	420	1560	3100	917	3080	3130	771	2380	2520
19	469	3310	3180	2020	1950	6040	300	5170	3120	184	1660	1000
20	550	2210	779	5170	2540	6690	335	2770	821	2610	4810	224
21	1090	2230	265	3130	963	830	3830	4420	229	3350	2700	1850
22	1420	991	3830	2540	405	300	2400	4260	2940	2170	779	3430
23	1530	250	2610	2520	1850	1790	2560	1450	3240	3500	184	2730
24	1620	2630	2290	714	2210	1810	3340	234	2980	4910	5400	2730
25	945	3710	2270	240	1670	1780	1890	1480	3470	660	6480	2730
26	279	8870	2150	2770	1740	2290	240	2400	1800	280	3430	954
27	515	2820	917	3050	1700	1560	981	4040	714	2570	2090	224
28	1280	2360	250	2800	847	796	5350	7390	184	4210	1650	1810
29	1420	1000	2040	2520	---	279	2900	2210	916	2200	738	3800
30	1320	325	1830	2580	---	963	6400	578	1540	1280	184	3650
31	1290	---	2470	2730	---	2700	---	234	---	675	2280	---
TOTAL	39225	60159	79225	87410	66770	60933	63427	74430	59002	74708	104170	67870
MEAN	1265	2005	2556	2820	2385	1966	2114	2401	1967	2410	3360	2262
MAX	2730	8870	6570	10400	8130	6690	6400	7390	4450	5830	8040	4760
MIN	279	250	250	240	255	279	240	214	184	139	134	224
MEAN†	309	1512	1654	1944	4397	2678	2316	2368	1923	1267	179	990
CFSM†	.14	.68	.74	.87	1.97	1.20	1.04	1.06	.86	.57	.08	.44
IN†	.16	.75	.85	1.00	2.05	1.38	1.16	1.22	.96	.65	.09	.49

CAL YR 1980 TOTAL 1741198 MEAN 4757 MAX 20700 MIN 250 MEAN† 4438 CFSM† 1.99 IN† 27.00
WTR YR 1981 TOTAL 837329 MEAN 2294 MAX 10400 MIN 134 MEAN† 1775 CFSM† 0.80 IN† 10.80

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, AND HARTWELL LAKE.

02187500 SAVANNAH RIVER NEAR IVA, S.C.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to current year.

PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: October 1962 to September 1967, October 1968 to September 1972.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: Maximum daily, 28.0°C Aug. 30, 31, 1970; minimum daily, 3.0°C Jan. 31, 1966.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
NOV 12...	1030	6.3	6.8	14.0	16.0	7.5
FEB 12...	1215	--	6.9	.0	7.0	11.0
MAY 12...	1230	6.8	7.1	25.0	11.0	10.5
AUG 13...	1045	6.7	6.5	32.0	13.0	8.0

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 12...	31	3	.1	40	11	<.02	.090	<.020	--	--	<1.0
FEB 12...	30	10	.9	230	8.9	.15	.030	.020	650	<50	<1.0
MAY 12...	33	14	1.0	1500	10	.20	<.020	.030	175	<50	<1.0
AUG 13...	34	2	.3	<30	9.0	.17	.020	.020	200	<50	1.5

02191970 LITTLE MACKS CREEK NEAR LEXINGTON, GA.

LOCATION.--Lat 33°36'28", long 82°32'18", Oglethorpe County, Hydrologic Unit, 03060104, on right bank 10 ft (3.0 m) upstream from culvert wingwall on State Highway 77, 11.3 mi (18.2 km) northeast of junction with U.S. Highway 78 in Lexington.

DRAINAGE AREA.--1.77 mi^2 (4.58 km^2).

PERIOD OF RECORD.--Annual maximum, water years 1960-74, December 1974 to current year. Prior to October 1977, published as Macks Creek Tributary No. 2 near Lexington.

GAGE.--Water-stage recorder. Altitude of gage is 510 ft (155 m), from topographic map. December 9, 1959, to December 4, 1974, crest-stage gage at same site and datum.

REMARKS.--Records good except those for period of no gage-height record, Jan. 12 to Feb. 4, and beaverdam, Feb. 27 to Apr. 28, which are poor.

AVERAGE DISCHARGE.--6 years, 2.09 ft^3/s (0.059 m^3/s), 16.04 in/yr (407 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 853 ft^3/s (24.2 m^3/s) Nov. 5, 1977, gage height, 10.49 ft (3.197 m); minimum daily discharge, 0.15 ft^3/s (0.004 m^3/s) Sept. 30, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51 ft^3/s (1.44 m^3/s) Feb. 10, gage height, 2.77 ft (0.844 m), no peaks above base of 100 ft^3/s (2.83 m^3/s); minimum daily discharge, 0.15 ft^3/s (0.004 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	.79	1.2	.97	1.0	1.8	3.2	.82	.65	.41	.42	.18
2	1.4	.74	1.3	.92	1.7	1.7	2.8	.75	.90	.76	.48	.18
3	1.1	.75	1.1	.93	.95	1.6	2.0	.73	.75	.58	.42	.16
4	.90	.88	1.1	.92	.84	1.5	1.7	.74	.80	.52	.33	.21
5	.86	.81	1.1	.92	.82	3.0	1.5	.70	.71	.55	.30	.31
6	.85	.78	1.0	.92	.81	2.0	1.4	.79	.55	.54	.29	.23
7	.85	.80	1.0	1.1	.80	1.7	1.3	.89	3.4	.43	.31	.21
8	.81	.75	1.1	.98	.86	1.5	1.2	.85	1.6	.38	.45	.37
9	.80	.75	1.2	.97	4.1	1.4	1.1	.71	.99	.37	.42	.25
10	.76	.76	3.2	.93	15	1.3	1.0	.74	.76	.36	.45	.25
11	.74	.76	1.7	.92	5.3	1.3	1.0	.90	.63	.35	.54	.25
12	.71	.76	1.5	.92	4.1	1.3	.96	.80	.67	.41	.54	.22
13	.71	.75	1.3	.90	3.7	1.2	.93	.69	.60	.43	.53	.20
14	.73	.78	1.2	.90	2.7	1.2	.91	.54	.57	.35	.53	.20
15	.74	.80	1.2	.90	2.6	1.2	.90	.69	.52	.35	.45	.18
16	.75	1.0	1.3	.88	2.6	1.1	.88	.49	.50	.36	.34	.20
17	.73	1.5	1.3	.88	7.1	1.1	.88	.48	.47	.38	.47	.18
18	.72	1.2	1.1	.88	11	1.1	1.6	.48	.46	.39	.51	.18
19	.72	1.0	1.1	.88	5.7	2.5	1.2	.62	.46	.37	.50	.17
20	.72	.92	1.1	.90	4.4	1.6	1.0	.68	.44	.37	.46	.17
21	.72	.94	1.0	1.3	3.6	1.3	.95	.64	.41	.33	.41	.17
22	.73	.92	1.0	1.0	5.6	1.1	.90	.46	.39	.29	.30	.22
23	.75	.93	1.0	.95	3.2	1.8	.88	.43	.38	.28	.28	.17
24	.78	1.5	1.0	.90	2.8	1.4	.88	.40	.38	.28	.31	.17
25	.86	1.3	.98	.88	2.5	1.2	.88	.38	.37	.30	.21	.17
26	.76	1.3	.98	.88	2.3	1.1	.86	.46	.37	.29	.17	.16
27	.76	2.9	.98	.86	2.1	1.1	.86	1.1	.35	.29	.19	.16
28	1.4	1.8	1.0	.86	1.9	1.1	.86	.62	.33	.27	.18	.16
29	1.1	1.4	.99	.86	---	1.1	.87	.46	.32	.28	.18	.18
30	1.3	1.2	1.1	.88	---	4.0	.87	.52	.31	.30	.18	.15
31	.89	---	1.0	.88	---	1.8	---	.56	---	.39	.18	---
TOTAL	28.65	31.47	37.13	28.77	100.08	48.1	36.27	20.12	20.04	12.02	11.33	6.01
MEAN	.92	1.05	1.20	.93	3.57	1.55	1.21	.65	.67	.39	.37	.20
MAX	3.0	2.9	3.2	1.3	15	4.0	3.2	1.1	3.4	.76	.54	.37
MIN	.71	.74	.98	.86	.80	1.1	.86	.38	.31	.27	.17	.15
CFSM	.52	.59	.68	.53	2.02	.88	.68	.37	.38	.22	.21	.11
IN.	.60	.66	.78	.60	2.10	1.01	.76	.42	.42	.25	.24	.13

CAL YR 1980 TOTAL 855.50 MEAN 2.34 MAX 36 MIN .32 CFSM 1.32 IN 17.97
WTR YR 1981 TOTAL 379.99 MEAN 1.04 MAX 15 MIN .15 CFSM .59 IN 7.98

02192000 BROAD RIVER NEAR BELL, GA.

LOCATION.--Lat 33°58'27", long 82°46'12", Elbert-Wilkes County line, Hydrologic Unit 03060104, at downstream side of main channel pier of bridge on State Highway 17, 0.5 mi (0.8 km) downstream from Long Creek, 1 mi (1.6 km) south of Bells Crossroads, and 12 mi (19.3 km) southeast of Elberton.

DRAINAGE AREA.--1,430 mi^2 (3,700 km^2), approximately.

PERIOD OF RECORD.--October 1926 to September 1932, August 1937 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1172: 1928-30. WSP 1383: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 357.16 ft (108.862 m) National Geodetic Vertical Datum of 1929. Prior to October 1928, nonrecording gage at railroad bridge about 1 mi (1.6 km) downstream at datum 1.12 ft (0.341 m) lower. October 1928 to July 1932, and August 1937 to January 1939, nonrecording gage at present site and datum.

REMARKS.--Records good except those for periods of no gage-height record, Apr. 16-28 and Aug. 15-31, which are fair. Records of chemical analyses for the 1970-79 water years are in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--50 years, 1,809 ft^3/s (51.2 m^3/s), 17.18 in/yr (436 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,400 ft^3/s (2,250 m^3/s) Oct. 2, 1929, gage height, 34.8 ft (10.61 m), from rating curve extended above 30,000 ft^3/s (850 m^3/s) on basis of slope-conveyance studies; minimum, 108 ft^3/s (3.06 m^3/s) Oct. 8, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1926, that of Oct. 2, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 14,000 ft^3/s (396 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 12	1200	*14300	405	17.73	5.404

Minimum daily discharge, 191 ft^3/s (5.41 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4200	1330	1210	950	882	1450	2110	701	603	421	361	250
2	3100	1140	1130	923	975	1430	2180	657	863	419	367	240
3	1770	1040	1090	896	1300	1370	1730	625	864	443	383	252
4	1310	1120	1050	884	1160	1310	1460	607	1110	499	402	276
5	1090	1340	1010	882	1020	1600	1350	598	1030	555	410	478
6	979	1170	994	870	971	1800	1430	591	1080	565	407	537
7	915	1040	980	901	953	1520	1420	600	1130	575	396	433
8	868	989	966	974	945	1370	1270	619	1360	572	386	861
9	838	963	959	947	939	1300	1210	618	1300	553	379	853
10	811	943	1260	912	998	1260	1180	590	981	525	382	544
11	787	925	1590	894	8320	1230	1140	680	815	499	513	404
12	758	899	1320	873	13400	1200	1100	1070	724	476	614	336
13	730	887	1140	867	5950	1170	1070	845	792	460	594	303
14	718	879	1070	882	2770	1150	1020	692	823	448	598	287
15	717	906	1020	895	2140	1130	979	633	725	435	575	272
16	721	1040	1010	887	1840	1120	950	620	647	420	540	266
17	725	1100	1010	874	1670	1090	911	596	600	406	480	275
18	725	1040	989	856	2170	1090	886	583	586	396	560	274
19	752	1010	961	849	7930	1310	937	588	572	401	570	260
20	1610	962	945	853	9580	1320	942	628	564	420	560	242
21	1180	929	936	899	4570	1180	900	678	559	430	520	234
22	959	915	927	950	2780	1150	844	648	549	420	490	231
23	878	901	917	928	2480	1310	817	593	534	404	460	229
24	843	968	925	889	2300	1270	791	563	517	385	420	223
25	856	1160	945	869	1950	1180	769	534	499	369	380	216
26	964	1150	953	858	1740	1130	751	511	485	368	350	209
27	941	1340	928	854	1610	1090	726	573	472	368	320	205
28	922	1980	920	872	1510	1070	700	778	459	367	300	202
29	1150	1680	934	883	---	1050	678	730	441	365	280	198
30	1230	1350	942	864	---	1220	687	605	429	360	270	191
31	1370	---	955	876	---	2060	---	557	---	357	260	---
TOTAL	35417	33096	31986	27611	84853	39930	32938	19911	22113	13681	13527	9781
MEAN	1142	1103	1032	891	3030	1288	1098	642	737	441	436	326
MAX	4200	1980	1590	974	13400	2060	2180	1070	1360	575	614	861
MIN	717	879	917	849	882	1050	678	511	429	357	260	191
CFSM	.80	.77	.72	.62	2.12	.90	.77	.45	.52	.31	.31	.23
IN.	.92	.86	.83	.72	2.21	1.04	.86	.52	.58	.36	.35	.25

CAL YR 1980 TOTAL 810336 MEAN 2214 MAX 20300 MIN 495 CFSM 1.55 IN 21.08
WTR YR 1981 TOTAL 364844 MEAN 1000 MAX 13400 MIN 191 CFSM .70 IN 9.49

02196820 BUTLER CREEK AT FORT GORDON, GA.

LOCATION.--Lat 33°26'33", long 82°07'43", Richmond County, Hydrologic Unit 03060106, on upstream side of old bridge 600 ft (183 m) upstream from U.S. Highways 78 and 278 at Fort Gordon.

DRAINAGE AREA.--7.5 mi^2 (19.4 km^2).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 280 ft (85 m), from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--13 years, 8.19 ft^3/s (0.232 m^3/s), 14.83 in/yr (377 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.00 ft (2.134 m), from floodmark, Mar. 3, 1971 (discharge not determined); minimum daily discharge, 0.10 ft^3/s (0.003 m^3/s) June 29, July 21, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft^3/s (4.24 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	0800	199	5.64	4.27	1.301
Aug. 10	2300	not determined		*6.57	2.003

Minimum daily discharge, 0.46 ft^3/s (0.013 m^3/s) July 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	4.6	5.0	5.4	4.7	8.2	23	1.8	19	.65	1.4	1.3
2	6.6	3.9	4.9	4.8	14	9.0	12	1.7	9.8	1.8	2.4	1.1
3	3.7	3.6	4.7	4.6	7.6	7.6	7.5	1.6	9.2	2.7	2.3	1.1
4	2.5	14	4.6	4.5	5.8	7.9	6.7	1.5	14	2.8	3.6	1.1
5	2.2	8.1	4.6	4.2	5.3	16	6.8	1.5	18	1.8	1.5	1.1
6	2.0	4.7	4.6	4.3	5.2	9.3	6.8	1.6	4.7	1.8	.89	1.1
7	1.9	4.1	4.7	8.4	7.0	8.3	5.8	3.7	22	3.0	.86	1.1
8	1.8	4.0	4.6	6.1	7.8	6.5	5.5	3.8	43	1.5	1.4	1.2
9	1.7	3.9	4.7	5.0	5.9	5.2	5.5	2.6	6.9	1.0	3.0	.99
10	1.6	3.8	10	4.8	11	5.1	5.3	2.2	3.9	.75	55	.86
11	1.4	3.7	7.9	4.6	114	5.0	5.1	2.1	2.7	.60	75	.80
12	1.3	3.7	5.6	4.5	17	4.9	4.8	1.9	2.2	.72	6.8	.80
13	1.3	3.6	5.1	4.4	11	4.7	4.5	1.7	1.9	1.2	10	.78
14	1.4	3.8	4.8	4.7	9.5	4.9	4.2	1.5	1.7	.84	3.9	.76
15	1.4	6.6	4.6	4.7	8.6	5.3	4.3	1.3	1.4	.61	2.5	1.0
16	1.5	7.7	4.8	4.5	8.0	5.6	4.0	1.2	1.1	.53	1.9	3.0
17	1.6	6.2	4.8	4.4	8.2	5.2	3.9	1.2	1.0	.52	4.1	1.9
18	1.7	6.7	4.6	4.3	29	13	3.8	1.2	1.0	1.5	4.0	1.3
19	1.9	5.0	4.6	4.3	18	13	3.6	1.1	.73	1.4	3.0	.96
20	1.8	4.6	4.5	4.5	11	7.3	4.1	1.1	.72	3.0	2.8	.91
21	1.7	4.5	4.3	5.6	8.6	6.4	6.7	1.2	.71	1.3	2.3	.90
22	1.8	4.3	4.4	5.1	7.9	8.2	4.5	1.1	.63	.69	3.0	.92
23	2.7	4.4	5.1	4.8	8.6	9.2	4.4	1.0	.60	.48	2.2	.86
24	4.9	14	5.3	4.5	7.5	7.0	9.0	.94	.53	.46	2.4	.78
25	5.2	11	5.0	4.4	6.9	6.2	3.8	.80	.57	.57	1.9	.81
26	3.6	6.2	4.5	4.3	6.8	5.8	2.9	.82	.65	.75	1.6	.80
27	3.2	11	4.7	4.5	6.4	5.6	2.4	2.6	.73	.61	1.4	.74
28	4.2	8.1	6.6	6.4	6.8	5.4	2.0	4.9	.77	.48	1.2	.76
29	4.6	6.0	5.9	5.1	---	5.4	1.9	1.8	.63	.88	1.3	.71
30	7.8	5.2	6.2	4.8	---	11	1.8	1.2	.54	.86	1.4	.62
31	6.3	---	6.1	5.1	---	8.1	---	1.8	---	.97	1.6	---
TOTAL	98.3	181.0	161.8	151.6	368.1	230.3	166.6	54.46	171.31	36.77	206.65	31.06
MEAN	3.17	6.03	5.22	4.89	13.1	7.43	5.55	1.76	5.71	1.19	6.67	1.04
MAX	13	14	10	8.4	114	16	23	4.9	43	3.0	75	3.0
MIN	1.3	3.6	4.3	4.2	4.7	4.7	1.8	.80	.53	.46	.86	.62
CFSM	.42	.80	.70	.65	1.75	.99	.74	.24	.76	.16	.89	.14
IN.	.49	.90	.80	.75	1.83	1.14	.83	.27	.85	.18	1.02	.15

CAL YR 1980 TOTAL 3296.92 MEAN 9.01 MAX 149 MIN .42 CFSM 1.20 IN 16.35
WTR YR 1981 TOTAL 1857.95 MEAN 5.09 MAX 114 MIN .46 CFSM .68 IN 9.21

02197000 SAVANNAH RIVER AT AUGUSTA, GA.

LOCATION.--Lat 33°22'25", long 81°56'35", Richmond County, Ga.-Aiken County, S.C., Hydrologic Unit 03060106, at New Savannah Bluff lock and dam, 0.2 mi (0.3 km) upstream from Butler Creek, 12.0 mi (19.3 km) downstream from Augusta, and at mile 187.4 (301.5 km).

DRAINAGE AREA.--7,508 mi^2 (19,446 km^2), including that of Butler Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1883 to December 1891, January 1896 to December 1906, January 1925 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at site of Fifth Street gage from 1875 to 1952 and at New Savannah Bluff lock and dam sites since 1937 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1303: 1927-39 (monthly runoff). WSP 1433: 1888, 1896-99, 1902-03, 1906-07, and 1932(M). WDR SC-77-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 96.58 ft (29.438 m), National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Oct. 1, 1883 to Dec. 31, 1891, Jan. 1, 1896 to Dec. 31, 1906, Jan. 1, 1925 to Sept. 30, 1932, nonrecording or recording gage at Fifth Street Bridge at datum 102.06 ft (31.11 m), NGVD (levels by Southeastern Engineering Co.). Oct. 1, 1932 to Sept. 30, 1936, recording gage at Thirteenth Street Bridge at datum 104.56 ft (31.87 m), NGVD (levels by U.S. Army Corps of Engineers). Oct. 1, 1936 to Nov. 10, 1948, recording gage at site 0.2 mi (0.3 km) downstream from present site and at present datum.

REMARKS.--Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, and Clarks Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, and 02194500). Records of chemical analyses for the water years 1968-72 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--74 years (1884-91, 1897-1906, 1926-81), 10,200 ft^3/s (289 m^3/s), 18.45 in/yr (469 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 350,000 ft^3/s (9,910 m^3/s) Oct. 3, 1929; maximum gage height, 46.3 ft (14.11 m) Sept. 27, 1929 (at site and datum then in use); minimum discharge, 648 ft^3/s (18.4 m^3/s) Sept. 24, 1939, from rating curve extended below 1,400 ft^3/s (39.6 m^3/s); minimum daily, 1,040 ft^3/s (29.5 m^3/s) Oct. 2, 1927.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred in 1796, discharge, 360,000 ft^3/s (10,200 m^3/s), gage height, 40 ft (12.2 m), marked by local residents, at site and datum of Fifth Street gage, by conveyance-slope study.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,700 ft^3/s (501 m^3/s) Feb. 12, gage height, 14.70 ft (4.481 m); minimum daily discharge, 5,120 ft^3/s (145 m^3/s) June 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7060	7250	6260	6450	6560	6090	6580	5540	7020	5200	5430	5560
2	7210	6370	6620	6320	6320	5990	7120	5690	6630	5170	5450	5650
3	7940	6110	6200	6370	7000	6320	6940	5740	6580	5290	5330	6140
4	7130	6540	7760	6470	7340	6400	6890	5450	6430	5780	5480	6800
5	6440	7130	8880	6390	7400	6580	6580	5530	6740	5650	5410	5990
6	6240	7000	6840	7140	7160	6580	6260	5560	7140	5560	5430	5680
7	6100	6960	6020	7220	6930	6320	6140	5490	7120	5410	5410	5640
8	5900	6910	5920	6820	6470	6230	6130	5690	7060	5550	5390	5510
9	6200	6560	6430	6680	5720	6140	6180	5970	7390	5760	5720	5580
10	6450	6140	7100	6860	5960	6060	6030	5670	7390	5960	5580	5680
11	6390	6610	6910	6790	9570	6320	6240	5510	6230	5750	6200	5820
12	6220	7160	6650	6420	15600	6580	6090	5500	5170	5420	6190	6230
13	6030	7250	6540	7610	14000	6580	5930	5410	5490	5500	6260	5850
14	6050	7160	6130	7530	7410	6320	6030	5650	5120	5390	6340	5720
15	6190	7210	6020	6630	5410	6060	5920	5620	5230	5630	6110	5730
16	6880	6860	6350	6320	5620	5800	5700	5590	5330	5530	5780	6120
17	6730	6390	6360	7010	6000	5800	5980	5800	6650	5490	5620	6030
18	6790	8960	6160	7160	6440	6940	6350	5710	6350	5430	5580	5870
19	6550	7080	6660	6200	6950	7210	6200	5600	6670	6710	5540	5980
20	5900	7250	6560	6200	6510	6400	5760	6630	6230	6370	5350	5980
21	6180	7320	6550	6270	6900	6140	6990	5850	5800	5810	5530	6250
22	6020	6720	7150	6670	6660	6140	6700	5770	5550	5700	5970	5710
23	6660	6470	6770	6340	6540	6400	6200	5620	5630	5480	5750	5510
24	6470	6320	6070	6380	6080	6320	6200	5640	6060	5410	5480	5630
25	6550	6530	6260	6640	6090	6230	6000	5460	5980	5520	5580	5830
26	6680	6800	6290	6130	6380	6140	5820	5390	5890	5570	5630	5780
27	6400	7730	6650	6750	6570	6230	5690	5500	5980	5450	5530	5950
28	6710	6800	6660	6730	6320	6760	5710	5970	5980	5490	5650	5880
29	6380	7090	6260	6370	---	7300	5590	6020	5890	5490	5680	5670
30	6710	6790	6090	6590	---	7120	5410	5920	5390	5330	5620	5420
31	7410	---	6230	7320	---	6580	---	5920	---	5410	5670	---
TOTAL	202570	207470	203350	206780	201910	198080	185360	176410	186120	173210	175690	175190
MEAN	6535	6916	6560	6670	7211	6390	6179	5691	6204	5587	5667	5840
MAX	7940	8960	8880	7610	15600	7300	7120	6630	7390	6710	6340	6800
MIN	5900	6110	5920	6130	5410	5800	5410	5390	5120	5170	5330	5420

CAL YR 1980 TOTAL 4270700 MEAN 11670 MAX 46000 MIN 5900 MEAN† 11185 CFSM† 1.49 IN† 20.22
WTR YR 1981 TOTAL 2292140 MEAN 6280 MAX 15600 MIN 5120 MEAN† 5108 CFSM† 0.68 IN† 9.24

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, AND CLARKS HILL RESERVOIR.

02197000 SAVANNAH RIVER AT AUGUSTA, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—October 1949 to September 1950, February 1968 to September 1972, July 1973 to current year.
PERIOD OF DAILY RECORD.—
WATER TEMPERATURE: October 1973 to current year.
INSTRUMENTATION.—Water-temperature recorder since October 1973.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURE: Maximum, 26.5°C Aug. 14-17, 1981; minimum, 4.5°C Jan. 30, 31, Feb. 2, 4, 1977, Feb. 19, 20, 1979.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURE: Maximum, 26.5°C Aug. 14-17; minimum, 6.5°C Jan. 13, Feb. 13.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.0	19.5	18.5	18.0	13.5	12.5	---	---	8.0	7.0	11.5	10.5
2	20.5	20.0	18.5	18.0	14.0	13.0	---	---	8.5	8.0	11.5	11.0
3	21.5	20.5	18.5	18.0	14.0	13.5	---	---	8.5	7.5	11.5	11.0
4	21.5	21.0	18.5	18.0	14.0	13.0	---	---	7.5	6.5	11.5	11.0
5	21.0	20.5	18.5	18.0	13.5	12.5	---	---	7.5	6.5	11.5	11.0
6	20.5	19.5	18.0	18.0	13.0	12.5	---	---	7.5	7.0	11.5	11.0
7	20.0	19.5	18.0	17.0	13.5	12.5	---	---	7.5	7.5	11.5	10.5
8	20.5	20.0	18.0	17.0	14.0	13.5	---	---	8.0	7.5	12.0	10.5
9	21.0	20.5	18.5	17.5	14.5	13.5	---	---	8.5	7.5	11.5	11.0
10	22.0	21.0	18.5	18.0	15.0	14.5	8.5	8.5	9.0	8.0	11.5	11.0
11	22.0	21.5	18.5	18.0	15.0	14.5	8.5	8.0	9.5	9.0	11.5	11.0
12	22.5	21.5	18.0	17.0	14.5	14.0	8.0	7.5	9.0	7.5	11.5	10.5
13	22.0	20.5	17.0	16.5	14.0	13.5	7.5	6.5	7.5	6.5	11.5	10.5
14	21.0	20.0	17.0	16.5	14.0	14.0	8.0	7.0	8.0	7.0	12.0	11.0
15	20.5	20.0	17.5	17.0	14.5	13.5	8.5	7.5	8.5	7.5	12.5	11.0
16	21.5	20.5	17.5	17.5	---	---	9.0	8.0	9.5	8.5	12.5	11.5
17	22.0	20.5	17.5	16.5	---	---	8.5	8.0	10.0	9.5	12.0	11.5
18	22.0	21.5	16.5	15.5	---	---	8.0	7.0	10.5	10.0	12.0	11.0
19	22.5	21.5	16.0	15.5	---	---	8.0	7.0	10.5	10.0	12.0	11.0
20	22.0	21.5	15.5	15.0	---	---	8.0	7.5	11.0	10.0	12.0	11.0
21	21.5	21.0	15.5	15.0	---	---	8.5	7.5	11.5	10.5	11.5	10.5
22	21.0	20.5	15.0	15.0	---	---	8.5	8.0	11.5	11.0	11.5	11.0
23	20.5	20.0	15.0	14.5	---	---	9.0	8.0	11.5	10.5	11.5	10.5
24	19.5	19.0	15.5	15.0	---	---	8.5	8.0	11.5	11.0	10.5	10.0
25	19.0	18.0	16.0	15.5	---	---	9.0	8.0	11.5	11.0	12.0	10.5
26	18.5	18.0	16.0	15.0	---	---	9.5	8.5	11.0	10.5	13.0	11.5
27	18.5	18.0	15.0	14.5	---	---	9.5	9.0	11.5	10.5	13.5	12.5
28	18.5	18.0	14.5	13.5	---	---	10.0	9.5	11.5	10.5	14.0	12.5
29	19.0	18.5	13.5	13.5	---	---	10.0	9.5	---	---	14.0	13.0
30	19.0	18.5	13.5	13.0	---	---	9.5	8.5	---	---	14.0	13.0
31	19.0	18.0	---	---	---	---	8.5	8.0	---	---	15.0	13.5
MONTH	22.5	18.0	18.5	13.0	15.0	12.5	10.0	6.5	11.5	6.5	15.0	10.0

02197000 SAVANNAH RIVER AT AUGUSTA, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.0	14.0	17.5	17.0	20.0	18.5	21.0	19.5	21.5	20.0	24.0	23.0
2	14.5	14.0	17.0	16.5	19.5	19.0	20.5	19.0	21.0	20.5	24.5	23.5
3	15.0	13.5	17.0	16.5	20.5	19.5	19.5	18.5	21.5	21.0	24.0	23.0
4	15.5	14.5	17.0	16.0	20.5	20.0	19.0	18.5	22.5	21.0	24.0	22.5
5	15.5	14.5	17.5	17.0	21.0	20.0	20.0	19.0	22.5	22.0	23.5	22.5
6	15.0	14.0	17.5	17.0	22.0	20.5	21.5	20.0	24.0	22.5	23.5	23.0
7	14.0	13.5	17.0	15.5	21.5	20.0	22.0	21.5	24.5	23.5	23.5	23.0
8	14.5	13.5	16.0	15.0	22.0	20.0	23.0	22.0	24.0	23.5	24.5	23.0
9	15.0	14.0	15.5	15.0	23.0	21.5	23.0	22.0	24.0	23.0	25.0	23.5
10	16.0	14.5	16.5	15.0	24.0	21.5	23.0	21.5	24.5	23.0	24.0	23.0
11	16.0	15.5	17.0	16.5	23.5	22.0	23.0	22.0	25.5	24.0	23.5	23.0
12	16.5	15.5	17.0	16.5	23.5	22.5	23.5	22.5	25.5	24.5	23.5	22.5
13	17.5	16.0	17.0	16.5	23.5	22.5	23.5	22.5	26.0	24.5	23.5	22.5
14	17.5	16.5	17.5	17.0	23.5	22.5	24.0	23.0	26.5	25.5	24.0	22.5
15	17.0	16.0	18.0	17.5	23.0	21.5	24.5	23.0	26.5	25.5	24.5	23.5
16	16.5	16.0	17.5	17.5	22.5	22.0	23.5	22.5	26.5	25.5	24.5	23.0
17	16.5	16.0	17.5	17.0	22.5	20.5	23.5	23.0	26.5	25.0	23.5	22.5
18	16.5	15.5	18.0	17.5	22.0	20.0	24.0	23.0	26.0	22.5	23.0	22.5
19	16.5	16.0	18.5	18.0	21.5	20.5	24.5	23.0	22.5	21.5	22.5	21.5
20	17.0	16.5	18.5	17.5	22.0	20.5	25.5	23.0	21.5	21.0	21.5	21.0
21	17.0	16.0	17.5	16.5	22.0	21.0	25.5	23.5	21.5	21.0	22.0	21.0
22	16.0	14.5	17.5	16.5	23.5	22.0	25.0	24.0	22.0	21.5	22.0	21.0
23	15.5	15.0	18.0	17.0	23.0	22.0	24.5	23.0	22.0	21.5	22.5	21.5
24	16.0	15.5	18.5	18.0	23.0	21.5	24.5	23.5	22.5	22.0	22.5	21.5
25	16.5	15.5	19.5	18.0	22.0	20.5	24.5	23.5	23.0	22.0	22.0	21.5
26	16.5	16.0	18.5	18.5	22.0	21.5	23.5	22.5	23.0	23.0	22.0	21.5
27	18.0	16.5	18.5	18.0	22.0	21.0	24.5	23.0	23.0	22.5	22.5	21.0
28	18.0	17.5	18.0	17.5	22.0	21.5	25.0	24.5	23.0	22.0	23.0	21.5
29	17.5	17.0	18.0	17.5	22.0	20.5	25.5	24.5	22.5	22.0	23.0	22.0
30	18.0	17.0	19.0	18.0	21.0	20.0	25.0	22.5	23.0	22.0	23.0	22.5
31	---	---	19.5	18.5	---	---	23.0	21.0	23.0	22.0	---	---
MONTH	18.0	13.5	19.5	15.0	24.0	18.5	25.5	18.5	26.5	20.0	25.0	21.0
YEAR	26.5	6.5										

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.

LOCATION.--Lat 33°13'01", long 81°46'04", Aiken County, S.C.-Burke County, Ga., Hydrologic Unit 03060106, on left bank 1.4 mi (2.3 km) downstream from Upper Three Runs Creek, 6.2 mi (10.0 km) south of Jackson, 15.2 mi (24.5 km) upstream from Steel Creek, and at mile 156.8 (252.3 km).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year, discharge defined below 20,000 ft^3/s (566 m^3/s), only.

GAGE.--Water-stage recorder. Datum of gage is 77.0 ft (23.47 m), National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, and Clarks Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, and 02194500.)

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, undetermined, Apr. 1, 1980; maximum gage height, 20.74 ft (6.322 m) Apr. 1, 1980; minimum daily discharge, 5,190 ft^3/s (147 m^3/s) July 31, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,300 ft^3/s (490 m^3/s) Feb. 13; maximum gage height, 15.16 ft (4.621 m) Feb. 13; minimum daily discharge, 5,190 ft^3/s (147 m^3/s) July 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8590	8320	6550	6760	7260	6640	7190	5660	7120	5560	5310	5690
2	8100	7360	6450	6750	6620	6530	8060	5630	8250	5440	5620	5660
3	8610	6750	6400	6590	6880	6560	8130	5620	7350	5360	5770	5820
4	8440	6710	6430	6770	7440	6720	7910	5610	7390	5320	5770	6520
5	7210	7470	9410	6590	7650	6890	7440	5580	7480	5390	5740	6360
6	6710	7690	7920	6990	7540	7230	7230	5560	7830	5560	5450	5660
7	6480	7310	6410	7540	7240	7420	6900	5550	7980	5660	5440	5480
8	6300	7250	5880	7430	6890	7160	6750	5530	7910	5480	5330	5340
9	6270	7030	5980	7030	6220	6810	6750	5560	8570	5510	5360	5380
10	6610	6510	6700	6900	5800	6490	6620	5590	8810	5680	5460	5360
11	6680	6500	7030	6900	7850	6530	6490	5600	7760	5690	5750	5440
12	6620	7120	6710	6630	14000	6630	6570	5590	6470	5440	6180	5720
13	6310	7510	6620	6810	17000	6960	6340	5580	6060	5350	6390	5740
14	6230	7460	6280	8120	13900	7140	6290	5560	6050	5330	6470	5560
15	6300	7590	5960	7420	7870	6690	6330	5560	5830	5320	6500	5440
16	6680	7330	6060	6360	6030	6320	6190	5560	5870	5410	6050	5640
17	7150	6960	6380	6620	6150	6040	6180	5560	6440	5310	6050	5820
18	6990	8090	6110	7410	6660	6690	6400	5560	6870	5270	5870	5700
19	6970	8410	6370	6910	7180	8040	6450	5570	6620	5610	5910	5640
20	6380	7370	6550	6100	7620	7470	6390	5590	6560	6590	5560	5660
21	6180	7530	6450	6020	7270	7560	6430	6390	5840	5860	5340	5900
22	6210	7130	6910	6470	7450	7640	7380	5840	5740	5550	5580	5730
23	6470	6560	7350	6620	7160	7390	6710	5780	5680	5360	5770	5390
24	6810	6290	6720	6290	6890	7000	6470	5730	5680	5210	5480	5240
25	6810	6410	6490	6570	6540	6870	6360	5700	6000	5200	5360	5480
26	6930	6610	6490	6620	6540	6680	6120	5640	5770	5410	5430	5640
27	6890	7440	6660	6420	6730	6940	5890	5590	5840	5340	5400	5750
28	7060	7560	7090	6750	7030	6800	5770	5690	6010	5340	5370	5830
29	6970	7000	6960	6760	---	6650	5760	6010	5850	5350	5450	5630
30	7120	6970	6530	6500	---	6680	5720	6090	5680	5320	5500	5460
31	7670	---	6460	7240	---	6680	---	6000	---	5190	5740	---
TOTAL	214750	216240	206310	210890	219410	213850	199220	176080	201310	169410	176400	169680
MEAN	6927	7208	6655	6803	7836	6898	6641	5680	6710	5465	5690	5656
MAX	8610	8410	9410	8120	17000	8040	8130	6390	8810	6590	6500	6520
MIN	6180	6290	5880	6020	5800	6040	5720	5530	5680	5190	5310	5240

WTR YR 1981 TOTAL 2373550 MEAN 6503 MAX 17000 MIN 5190 MEAN† 5331

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, AND CLARKS HILL RESERVOIR.

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—October 1972 to June 1974.
PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: October 1971 to current year.
INSTRUMENTATION.—Water-temperature recorder since October 1971.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum, 26.5°C July 21, 1981; minimum, 4.5°C Jan. 19, 20, 22, 23, Feb. 1, 1977, Feb. 9, 1978.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum, 26.5°C July 21; minimum, 6.0°C Jan. 13-14.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1					---	---	10.5	10.0	8.5	7.5	12.5	11.5
2					13.0	13.0	10.5	10.0	9.0	8.5	13.0	12.0
3					13.0	12.5	10.0	9.0	8.5	7.5	13.0	12.0
4					13.0	12.5	9.5	9.0	7.5	7.0	12.5	12.0
5					13.0	12.0	9.0	8.0	7.0	6.5	12.5	12.0
6					12.5	12.0	8.5	8.0	7.0	6.5	12.5	11.5
7					12.5	12.0	8.5	8.0	7.5	7.0	12.5	11.5
8					13.0	12.0	9.0	8.0	8.0	7.5	12.0	11.0
9					14.0	12.5	8.5	8.0	8.5	7.5	12.5	11.0
10					14.0	13.5	8.5	7.5	9.5	8.0	12.0	11.0
11					14.0	13.5	8.0	7.5	10.0	9.0	12.0	11.0
12					13.5	12.5	7.5	7.0	9.0	7.5	12.0	11.0
13					12.5	12.0	7.0	6.0	7.5	7.0	12.0	11.5
14					12.5	12.0	7.0	6.0	7.5	6.5	12.5	11.0
15					12.0	11.5	8.0	7.0	9.0	7.5	12.5	11.0
16					12.0	11.5	8.5	7.5	10.0	9.0	13.0	12.0
17					12.0	11.5	8.5	7.5	11.0	10.0	12.5	11.5
18					11.5	11.0	8.0	7.0	11.5	11.0	12.5	12.0
19					11.5	11.0	7.5	7.0	12.0	11.5	12.5	11.5
20					12.0	11.5	8.0	7.5	12.5	11.5	12.0	11.0
21					11.5	10.5	8.0	8.0	12.0	11.5	12.0	11.0
22					10.5	9.5	8.5	8.0	12.5	11.0	11.5	11.0
23					9.5	9.0	9.0	8.0	12.5	12.0	11.0	10.5
24					9.5	9.0	9.0	8.0	12.0	11.0	11.5	10.5
25					9.5	9.0	9.0	8.0	12.0	11.0	12.0	10.5
26					8.5	8.5	9.0	8.5	12.0	11.0	13.0	11.5
27					8.5	8.0	10.0	9.0	12.0	11.5	14.5	12.5
28					8.5	8.0	10.5	9.5	12.0	11.0	15.0	13.5
29					9.0	8.5	10.0	9.5	---	---	15.5	14.0
30					10.0	9.0	10.0	9.0	---	---	16.0	14.5
31					10.5	10.0	9.0	8.0	---	---	16.5	14.5
MONTH					14.0	8.0	10.5	6.0	12.5	6.5	16.5	10.5

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	15.5	19.5	18.5	22.0	21.0	23.0	21.5	22.5	22.0	24.0	23.0
2	16.5	14.5	18.5	18.0	22.0	21.0	22.5	20.5	22.5	22.0	24.5	23.5
3	16.5	15.0	18.0	17.0	22.5	21.0	21.5	20.5	23.0	22.0	25.0	24.0
4	16.5	15.0	18.5	17.0	23.0	22.0	21.0	20.0	24.0	23.0	24.5	23.5
5	16.5	16.0	19.0	17.0	23.0	22.0	21.5	20.0	24.5	23.5	24.0	23.0
6	16.5	15.0	19.0	18.5	23.5	22.5	23.0	21.0	25.0	24.0	24.0	23.0
7	16.0	14.5	18.5	17.0	23.5	22.5	24.0	22.5	25.5	25.0	24.5	23.5
8	16.0	14.5	17.5	16.5	23.0	21.5	24.5	23.5	25.0	24.5	24.5	23.5
9	16.5	15.0	17.0	16.5	24.0	22.0	25.0	24.0	25.0	24.5	24.5	24.0
10	17.5	16.0	17.0	16.0	24.5	23.5	25.0	24.0	25.0	24.0	24.5	23.5
11	18.0	16.5	18.0	16.5	25.0	23.5	25.0	24.0	25.0	24.0	24.0	23.5
12	18.5	17.0	18.5	17.5	24.5	23.5	25.0	24.5	25.5	24.0	24.0	23.0
13	18.5	17.5	18.5	17.5	25.0	24.0	25.0	24.5	25.0	24.5	24.0	23.0
14	19.0	18.0	19.0	18.0	25.0	24.5	25.5	25.0	25.5	24.5	24.0	23.0
15	18.5	18.0	19.5	18.5	25.0	24.0	26.0	25.0	26.0	25.0	24.5	23.0
16	18.0	16.5	19.5	18.5	24.5	24.0	26.0	25.0	26.0	25.0	24.5	23.5
17	17.5	16.5	19.0	18.5	24.5	23.5	25.5	24.5	25.5	25.0	24.0	23.0
18	18.0	17.0	19.5	18.5	24.5	22.5	25.5	25.0	25.5	24.0	23.5	22.5
19	18.0	17.0	20.0	19.0	23.5	22.0	25.5	25.0	24.0	22.5	22.5	21.5
20	18.5	17.5	20.0	19.0	24.0	22.5	25.0	24.0	22.5	22.0	22.0	21.0
21	18.5	17.0	19.0	18.0	24.0	23.0	26.5	24.5	22.0	21.5	21.5	20.5
22	17.0	16.0	18.5	17.5	24.5	23.5	26.0	25.0	22.5	21.5	22.0	20.5
23	16.5	15.0	19.5	18.0	25.0	24.5	26.0	25.0	22.5	22.0	22.0	21.5
24	17.5	16.5	20.0	19.0	25.0	24.5	25.5	24.5	23.5	21.5	22.0	21.5
25	17.5	16.5	21.0	19.5	24.5	23.5	25.5	25.0	23.5	22.5	22.0	21.5
26	18.0	17.0	21.0	19.5	24.0	22.5	25.0	24.5	24.0	23.0	22.0	21.0
27	18.5	17.5	20.5	20.0	24.0	23.0	25.0	24.5	24.0	23.0	22.0	21.0
28	20.0	18.5	20.5	19.5	23.5	22.5	25.5	24.5	23.5	23.5	22.5	21.5
29	19.5	19.0	20.5	19.0	24.0	22.5	25.5	25.0	23.5	23.0	22.5	21.5
30	19.5	18.5	20.5	19.5	23.5	22.5	25.5	24.0	23.5	23.0	23.0	22.0
31	---	---	21.5	20.5	---	---	24.0	22.5	24.0	23.0	---	---
MONTH	20.0	14.5	21.5	16.0	25.0	21.0	26.5	20.0	26.0	21.5	25.0	20.5
YEAR	26.5	6.0										

02197370 SAVANNAH RIVER BELOW STEEL CREEK, NEAR MILLET, S.C.

LOCATION.—Lat 33°04'58", long 81°35'54", Allendale County, S.C.-Burke County, Ga., Hydrologic Unit 3060106, on left bank 2.8 mi (4.5 km) downstream from Steel Creek, 12.6 mi (20.3 km) upstream from Lower Three Runs, 3.7 mi (6.0 km) west of Millet, and at mile 138.8 (223.3 km).

PERIOD OF RECORD.—Water years 1972 to current year.

PERIOD OF DAILY RECORD.—
WATER TEMPERATURE: October 1971 to current year.

INSTRUMENTATION.—Water-temperature recorder since October 1971.

EXTREMES FOR PERIOD OF RECORD.—
WATER TEMPERATURE: Maximum, 29.0°C June 23, 1981; minimum, 4.0°C Jan. 20, 1977.

EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURE: Maximum, 29.0°C June 23; minimum, 6.0°C Jan. 13.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.0	20.0	18.0	17.5	13.0	12.0	11.0	10.0	9.0	8.0	13.5	12.5
2	21.0	20.0	17.5	17.0	13.0	12.0	10.5	10.0	9.5	8.5	14.5	13.5
3	21.5	21.0	17.5	17.0	13.5	13.0	10.5	9.5	9.0	7.5	14.0	12.5
4	21.5	20.5	18.0	17.5	13.0	12.5	10.0	9.5	8.0	7.0	13.5	12.5
5	21.5	20.5	18.0	17.5	13.0	12.5	9.5	8.5	7.5	6.5	13.5	13.0
6	20.5	20.0	17.5	17.0	12.5	12.0	8.5	8.0	7.0	6.5	13.5	12.5
7	20.5	19.0	17.0	16.5	13.0	12.0	9.0	8.5	8.0	7.0	13.0	12.5
8	20.5	19.0	17.5	16.5	13.5	12.5	9.0	8.5	8.5	8.0	13.0	12.0
9	21.0	19.0	17.5	16.5	14.0	13.0	8.5	8.0	9.0	8.0	13.0	11.5
10	22.0	20.0	18.0	17.0	15.0	14.0	8.5	8.0	10.5	8.5	13.5	12.0
11	22.0	21.0	17.5	16.5	14.5	14.0	8.0	7.5	11.5	10.0	13.0	12.0
12	22.0	21.0	17.0	16.0	13.5	13.0	7.5	7.0	10.0	8.5	13.5	12.0
13	21.5	20.0	16.0	15.5	13.5	12.5	7.0	6.0	8.5	7.0	13.0	12.5
14	20.5	19.5	16.0	15.5	13.0	12.5	7.0	6.5	8.0	7.0	13.5	12.0
15	20.5	19.0	16.5	16.0	12.5	12.0	8.5	7.0	9.5	7.5	13.0	12.0
16	20.5	19.0	17.0	16.5	12.5	12.0	8.5	8.0	11.5	9.5	14.0	13.0
17	21.0	20.0	16.5	16.0	12.5	12.0	8.5	7.5	12.5	11.0	13.5	12.0
18	22.0	21.0	16.0	15.5	12.0	11.5	8.0	7.0	13.0	12.0	13.5	12.5
19	22.5	21.5	15.5	14.0	12.5	11.5	8.5	7.5	13.5	12.5	13.0	12.0
20	22.5	21.5	14.0	13.5	12.5	12.0	9.0	8.0	13.0	12.5	12.5	11.5
21	21.5	20.5	14.5	13.5	12.0	10.5	9.0	8.5	13.0	12.0	12.5	11.5
22	20.5	20.0	13.5	13.0	10.5	10.0	9.0	8.5	13.0	12.0	12.5	11.5
23	20.0	19.0	14.5	13.5	10.0	9.5	9.5	8.5	14.0	12.5	11.5	11.0
24	19.0	18.0	15.0	14.5	10.0	9.5	9.5	9.0	13.0	12.0	12.0	11.0
25	18.5	18.0	15.5	15.0	10.0	9.0	10.0	8.5	13.5	12.0	13.0	11.5
26	18.0	17.0	15.0	14.5	9.0	8.5	10.0	9.0	14.0	12.0	14.5	12.0
27	17.5	16.5	14.5	14.0	8.5	8.5	10.5	9.5	14.0	12.5	15.0	13.0
28	17.5	17.0	14.0	13.0	8.5	8.0	11.5	10.5	13.0	12.5	15.5	14.5
29	18.0	17.5	13.0	12.5	9.5	8.5	11.0	10.0	---	---	16.0	15.0
30	18.5	18.0	13.0	12.0	10.0	9.5	10.5	9.0	---	---	16.5	15.0
31	18.0	17.5	---	---	11.0	10.0	9.0	8.5	---	---	17.5	16.0
MONTH	22.5	16.5	18.0	12.0	15.0	8.0	11.5	6.0	14.0	6.5	17.5	11.0

02197370 SAVANNAH RIVER BELOW STEEL CREEK, NEAR MILLET, S.C.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.0	16.5	21.0	19.5	23.0	21.5	25.0	21.0	24.5	24.5	25.5	24.5
2	17.0	16.0	20.5	18.5	23.0	22.0	24.0	21.0	24.5	24.0	25.5	24.0
3	17.0	16.0	20.0	18.0	23.5	22.5	27.5	21.5	24.0	23.5	25.5	24.5
4	17.5	16.5	19.5	17.5	24.0	22.5	25.5	22.0	25.0	24.0	25.5	24.0
5	17.0	16.5	21.0	18.0	24.5	23.5	23.5	22.0	25.5	24.5	25.0	23.5
6	17.0	16.0	20.5	18.5	25.0	23.5	24.5	22.5	26.0	25.0	25.0	23.5
7	16.5	15.5	20.5	19.0	25.0	24.0	25.5	23.5	26.0	24.5	25.0	24.0
8	16.5	15.0	19.0	17.5	24.0	23.5	26.5	24.0	26.0	25.0	25.0	24.0
9	17.0	15.0	18.5	17.5	24.5	23.5	27.0	25.0	25.5	25.0	26.0	24.5
10	17.5	16.0	18.5	17.5	25.5	24.0	27.0	25.5	25.5	25.5	26.0	24.0
11	18.5	17.0	18.0	17.5	26.0	25.0	27.5	26.0	25.5	25.5	25.5	24.0
12	19.0	17.5	19.5	17.5	26.0	25.0	27.0	25.0	26.0	25.0	25.5	24.5
13	19.5	18.0	20.0	18.0	26.5	25.0	27.0	25.0	26.0	25.5	25.0	23.5
14	20.0	18.5	20.5	17.0	27.0	25.0	27.5	26.0	26.0	25.5	25.0	23.5
15	19.5	18.0	23.0	18.0	27.0	24.5	28.0	26.0	26.5	25.5	25.0	23.0
16	19.0	17.5	21.0	19.0	27.0	24.5	28.0	26.5	26.5	26.0	25.0	24.0
17	19.0	17.0	20.5	18.5	27.0	24.5	27.5	26.5	26.5	26.0	25.0	23.5
18	19.5	17.5	20.5	18.5	26.5	25.0	27.5	26.0	26.0	25.0	24.5	23.5
19	20.0	18.0	21.0	19.0	26.0	24.0	27.0	26.5	25.0	24.0	23.5	22.0
20	19.0	17.5	21.0	19.0	25.5	24.5	26.5	26.0	24.0	23.5	23.0	21.5
21	17.5	17.0	20.0	18.5	26.5	24.5	26.5	25.5	23.5	23.0	22.5	21.0
22	18.5	17.5	20.0	18.0	26.5	24.5	27.0	26.5	23.5	23.0	22.5	20.5
23	18.5	17.0	20.0	19.0	29.0	24.5	27.0	26.0	23.5	23.0	23.0	21.5
24	19.5	17.5	21.5	19.5	26.5	25.0	27.0	25.5	24.0	23.0	23.0	22.0
25	21.0	18.0	22.0	18.0	26.5	24.5	27.0	26.0	24.5	23.5	23.0	21.5
26	21.0	18.5	24.0	19.5	25.5	23.5	26.5	25.5	25.0	24.5	23.0	21.5
27	22.0	19.5	24.5	20.0	25.5	24.0	26.5	26.0	25.0	24.5	23.0	21.5
28	---	---	22.0	20.0	25.0	23.5	27.0	26.0	25.0	24.5	23.0	21.5
29	21.5	20.0	22.0	20.0	25.0	23.0	27.0	26.0	25.0	24.5	23.0	22.0
30	21.5	19.5	22.0	20.0	25.0	23.5	27.0	26.0	25.0	25.0	23.0	22.5
31	---	---	22.5	20.5	---	---	28.0	25.0	25.0	24.0	---	---
MONTH	22.0	15.0	24.5	17.0	29.0	21.5	28.0	21.0	26.5	23.0	26.0	20.5
YEAR	29.0	6.0										

02197520 BRIER CREEK NEAR THOMSON, GA.

LOCATION.--Lat 33°22'06", long 82°28'06", McDuffie County, Hydrologic Unit 03060108, on downstream side of bridge on State Highway 17, 0.2 mi (0.3 km) upstream from Sweetwater Creek, and 6.9 mi (11.1 km) south of Thomson.
DRAINAGE AREA.--55 mi^2 (142 km^2), approximately.
PERIOD OF RECORD.--July 1967 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 300 ft (101 m), from topographic map.
REMARKS.--Records fair. Low flows affected by diversions and return flow from the city of Thomson.
AVERAGE DISCHARGE.--14 years, 480 ft^3/s (1.36 m^3/s), 11.85 in/yr (301 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,810 ft^3/s (136 m^3/s) Mar. 3, 1971, gage height, 18.09 ft (5.514 m), from floodmark; minimum daily, 0.24 ft^3/s (0.007 m^3/s) Sept. 24, 1968.
EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 0.007 ft^3/s (0.0002 m^3/s) was measured on Oct. 14, 1954.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	1600	1210	34.3	10.80	3.292	June 8	0500	*1560	44.2	11.85	3.612

Minimum daily discharge, 0.71 ft^3/s (0.020 m^3/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	3.4	9.6	9.1	10	30	117	5.6	80	1.9	1.7	1.8
2	13	2.7	9.0	7.8	20	34	120	5.1	21	4.3	2.0	1.5
3	5.5	2.4	8.2	7.5	21	29	60	4.7	12	5.9	4.3	1.5
4	3.2	16	7.8	7.6	15	29	45	4.3	15	13	8.3	1.4
5	2.3	18	7.6	7.1	13	87	41	4.1	23	4.6	2.2	1.4
6	2.0	8.4	7.1	6.9	12	53	38	4.0	11	6.0	1.5	1.3
7	1.8	5.9	7.3	12	13	38	32	5.0	263	8.5	1.4	1.3
8	1.7	4.6	7.0	14	16	32	28	6.4	957	3.8	9.7	1.3
9	1.7	4.0	7.1	11	14	28	26	5.3	104	2.7	22	1.2
10	1.5	3.7	20	10	31	26	26	4.9	49	2.2	6.6	1.1
11	1.5	3.7	27	9.1	793	25	23	5.1	31	2.1	28	.99
12	1.3	3.5	16	8.7	248	23	21	4.7	25	2.0	14	1.1
13	1.2	3.3	12	9.3	92	22	18	4.3	17	1.9	110	1.1
14	1.3	3.7	11	8.4	69	22	16	3.8	14	1.8	20	.98
15	1.4	6.5	10	9.0	57	20	15	3.6	10	1.5	9.5	1.0
16	1.3	16	9.7	8.8	49	20	13	3.4	7.9	1.4	7.1	1.1
17	1.3	12	9.9	8.0	44	18	13	3.3	6.4	1.3	37	.95
18	1.4	13	9.2	7.8	109	35	13	3.3	5.2	13	15	.90
19	1.5	11	8.4	7.7	171	95	11	3.0	4.4	3.6	8.6	.97
20	1.3	8.7	8.0	8.3	88	44	10	2.9	4.0	2.9	6.2	.98
21	1.4	7.3	7.4	11	61	34	15	3.0	3.5	2.4	4.5	.98
22	2.2	6.8	6.9	11	50	36	13	2.6	3.1	1.5	4.0	.97
23	4.2	6.7	8.2	10	53	61	12	2.4	2.8	1.4	3.5	.92
24	3.9	21	9.4	10	47	42	17	2.3	2.5	1.3	3.7	.84
25	3.5	27	9.8	9.2	39	34	13	2.1	2.3	2.0	3.0	.89
26	2.3	14	8.2	9.0	35	30	9.9	2.1	3.8	2.5	2.4	.82
27	1.9	17	8.0	8.8	32	27	8.1	6.5	2.7	2.4	2.2	.85
28	2.5	19	9.6	13	30	25	7.1	6.8	2.2	1.7	2.0	.77
29	4.3	14	11	12	---	26	6.2	4.1	1.8	1.4	1.9	.71
30	5.0	11	10	11	---	34	5.9	3.1	1.7	1.9	2.1	.83
31	5.1	---	9.6	11	---	44	---	16	---	1.6	2.2	---
TOTAL	100.5	294.3	310.0	294.1	2232	1103	793.2	137.8	1686.3	104.5	346.6	32.45
MEAN	3.24	9.81	10.0	9.49	79.7	35.6	26.4	4.45	56.2	3.37	11.2	1.08
MAX	18	27	27	14	793	95	120	16	957	13	110	1.8
MIN	1.2	2.4	6.9	6.9	10	18	5.9	2.1	1.7	1.3	1.4	.71
CFSM	.06	.18	.18	.17	1.45	.65	.48	.08	1.02	.06	.20	.02
IN.	.07	.20	.21	.20	1.51	.75	.54	.09	1.14	.07	.23	.02

CAL YR 1980 TOTAL 21691.40 MEAN 59.3 MAX 2280 MIN .48 CFSM 1.08 IN 14.67
WTR YR 1981 TOTAL 7434.75 MEAN 20.4 MAX 957 MIN .71 CFSM .37 IN 5.03

02197600 BRUSHY CREEK NEAR WRENS, GA.

LOCATION.--Lat 33°10'37", long 82°18'20", Jefferson County, Hydrologic Unit 03060201, at right bank on downstream side of bridge on State Highway 80, 5 mi (8.0 km) southeast of Wrens, and 5.5 mi (8.8 km) upstream from Little Brushy Creek.

DRAINAGE AREA.--28.0 mi^2 (72.5 km^2).

PERIOD OF RECORD.--May 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 282.56 ft (86.124 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--Records good. Discharge during growing season affected by undetermined amount of irrigation withdrawal. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--23 years, 27.1 ft^3/s (0.77 m^3/s), 13.14 in/yr (334 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.03 ft (2.448 m) Mar. 3, 1971 (discharge not determined); minimum daily discharge, 4.0 ft^3/s (0.113 m^3/s) July 24, 25, 27-29, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 195 ft^3/s (5.52 m^3/s) Feb. 11, gage height, 4.59 ft (1.399 m), no peaks above base of 300 ft^3/s (8.50 m^3/s); minimum daily discharge, 4.0 ft^3/s (0.113 m^3/s) July 24, 25, 27-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	16	14	13	11	15	68	12	61	6.2	4.9	7.0
2	23	14	14	12	15	20	57	11	31	8.1	12	7.3
3	16	13	13	11	15	18	31	11	17	8.4	12	7.8
4	14	26	13	11	13	18	25	10	18	8.3	6.9	6.7
5	11	24	13	11	12	39	22	9.9	13	7.4	6.5	6.7
6	11	17	13	12	12	25	20	9.7	12	9.6	6.1	9.0
7	10	15	13	14	13	20	19	13	10	7.2	5.9	10
8	10	15	13	13	14	18	18	14	11	5.9	7.2	8.4
9	9.6	15	12	12	13	17	17	12	10	5.6	22	7.8
10	9.3	15	14	12	28	16	17	11	8.9	5.9	21	7.1
11	9.5	15	15	12	181	15	16	10	8.1	5.9	15	6.8
12	9.7	15	15	12	83	14	15	9.8	8.0	5.5	16	6.6
13	9.7	15	15	12	35	14	14	8.8	7.7	7.1	37	6.7
14	9.8	15	14	12	29	14	14	9.2	7.2	6.1	18	6.6
15	9.7	29	13	12	26	14	14	8.1	6.5	4.7	12	6.6
16	9.2	34	13	12	24	14	13	8.9	5.5	6.6	12	8.2
17	8.9	21	13	12	23	14	13	9.1	5.4	5.1	68	9.7
18	9.0	22	12	12	27	20	13	9.1	5.0	6.3	28	7.8
19	9.2	15	12	12	29	29	12	8.5	5.3	5.8	18	7.3
20	9.2	14	12	11	24	20	13	8.7	8.6	4.5	15	7.6
21	9.4	14	12	12	21	18	18	8.9	6.2	4.7	13	7.1
22	9.7	14	12	12	22	21	15	8.4	5.4	4.3	12	6.4
23	11	13	13	12	23	24	14	7.8	5.8	4.2	12	6.1
24	14	18	14	11	25	19	21	7.0	6.2	4.0	11	6.3
25	14	20	13	11	24	17	15	6.4	16	4.0	10	6.6
26	13	16	12	11	22	18	12	7.2	7.3	8.2	9.7	6.3
27	12	21	12	11	16	15	12	11	6.2	4.0	9.2	6.8
28	14	20	12	11	16	14	11	11	5.6	4.0	8.9	6.0
29	14	17	13	11	---	14	10	8.6	6.0	4.0	8.9	5.5
30	22	15	14	11	---	23	9.7	7.8	5.6	4.3	8.8	6.2
31	20	---	14	12	---	26	---	8.2	---	4.3	8.4	---
TOTAL	400.9	533	407	365	796	583	568.7	296.1	329.5	180.2	455.4	215.0
MEAN	12.9	17.8	13.1	11.8	28.4	18.8	19.0	9.55	11.0	5.81	14.7	7.17
MAX	40	34	15	14	181	39	68	14	61	9.6	68	10
MIN	8.9	13	12	11	11	14	9.7	6.4	5.0	4.0	4.9	5.5
CFSM	.46	.64	.47	.42	1.01	.67	.68	.34	.39	.21	.53	.26
IN.	.53	.71	.54	.48	1.06	.77	.76	.39	.44	.24	.61	.29

CAL YR 1980 TOTAL 9380.1 MEAN 25.6 MAX 639 MIN 5.6 CFSM .91 IN 12.46
WTR YR 1981 TOTAL 5129.8 MEAN 14.1 MAX 181 MIN 4.0 CFSM .50 IN 6.82

02197830 BRIER CREEK NEAR WAYNESBORO, GA.

LOCATION.--Lat 33°07'05", long 81°57'50", Burke County, Hydrologic Unit 03060108, near left bank on downstream end of pier of bridge on State Highway 56, 3.8 mi (6.1 km) northeast of Waynesboro.

DRAINAGE AREA.--473 mi^2 (1,225 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 173.78 ft (52.968 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--12 years, 486 ft^3/s (13.8 m^3/s), 13.95 in/yr (354 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft^3/s (306 m^3/s) Mar. 15, 1971, gage height, 12.28 ft (3.743 m); minimum, 84 ft^3/s (2.38 m^3/s) Sept. 30, 1981, gage height, 2.06 ft (0.628 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft^3/s (53.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 15	0500	*2520	71.4	8.18	2.493
June 11	1400	2280	64.6	7.90	2.408

Minimum discharge, 84 ft^3/s (2.38 m^3/s) Sept. 30, gage height, 2.06 ft (0.628 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	427	269	432	297	259	414	503	179	207	129	158	161
2	512	285	402	298	297	400	695	168	235	125	352	145
3	570	279	378	296	319	390	730	160	396	134	198	137
4	562	259	342	290	312	385	706	153	629	144	156	129
5	491	248	317	278	311	451	666	147	682	152	154	127
6	392	247	302	281	320	465	686	144	669	163	143	129
7	303	286	290	285	332	472	594	147	496	204	123	128
8	251	302	281	289	324	480	485	161	404	188	128	129
9	216	312	275	294	310	484	429	170	413	158	166	127
10	193	308	275	302	310	497	396	182	419	145	303	122
11	179	274	276	310	743	433	368	176	1790	138	368	117
12	167	248	276	305	969	371	342	164	1390	127	419	111
13	158	232	284	286	931	343	318	154	774	116	511	109
14	152	224	301	273	1290	327	298	146	489	108	523	107
15	147	227	326	265	2290	315	284	139	316	105	714	97
16	146	250	347	258	1370	310	269	134	233	104	760	99
17	147	275	332	254	871	291	256	130	193	106	801	103
18	148	341	308	255	680	303	241	126	169	105	877	106
19	150	397	293	259	628	368	227	122	151	99	554	108
20	151	395	284	254	563	388	217	118	140	95	467	104
21	153	374	276	260	513	424	220	119	131	93	398	100
22	155	338	269	264	529	455	227	117	127	99	334	97
23	157	305	297	260	673	521	230	116	120	98	269	95
24	173	289	306	264	653	522	257	112	111	98	236	92
25	177	288	297	267	550	462	258	110	106	94	213	90
26	181	290	287	263	483	433	268	109	117	122	192	89
27	191	335	285	254	448	429	287	110	152	114	177	90
28	199	390	291	253	437	416	265	113	172	92	166	90
29	205	428	296	250	---	381	223	125	159	92	157	86
30	236	455	292	247	---	369	195	134	140	92	154	84
31	266	---	296	254	---	391	---	141	---	92	162	---
TOTAL	7555	9150	9513	8465	17715	12690	11140	4326	11530	3731	10333	3308
MEAN	244	305	307	273	633	409	371	140	384	120	333	110
MAX	570	455	432	310	2290	522	730	182	1790	204	877	161
MIN	146	224	269	247	259	291	195	109	106	92	123	84
CFSM	.52	.65	.65	.58	1.34	.87	.78	.30	.81	.25	.70	.23
IN.	.59	.72	.75	.67	1.39	1.00	.88	.34	.91	.29	.81	.26

CAL YR 1980 TOTAL 181390 MEAN 496 MAX 5190 MIN 98 CFSM 1.05 IN 14.27
WTR YR 1981 TOTAL 109456 MEAN 300 MAX 2290 MIN 84 CFSM .63 IN 8.61

02197830 BRIER CREEK NEAR WAYNESBORO, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—*February 1938 to June 1958*, December 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
29...	1150	204	15.0	3	1.7
MAR					
04...	1145	382	13.0	5	5.2
APR					
09...	0915	435	17.0	7	8.2
MAY					
20...	1045	118	20.5	10	3.2
JUL					
01...	1400	129	22.0	5	1.7
SEP					
22...	0915	96	17.5	3	.78

02198000 BRIER CREEK AT MILLHAVEN, GA.

LOCATION.--Lat 32°56'00", long 81°39'05", Screven County, Hydrologic Unit 03060108, near right bank on downstream side of pier of highway bridge at Millhaven, 8.5 mi (13.7 km) upstream from Beaver Dam Creek.

DRAINAGE AREA.--646 mi^{2} (1,670 km^{2}).

PERIOD OF RECORD.--October 1936 to current year. Monthly discharges only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1383: Drainage area. WSP 1503: 1956.

GAGE.--Water-stage recorder. Datum of gage is 95.88 ft (29.224 m) National Geodetic Vertical Datum of 1929. Prior to June 7, 1950, nonrecording gage at site 200 ft (61 m) downstream at same datum. June 7, 1950, to Apr. 30, 1951, nonrecording gage at present site and datum.

REMARKS.--Records good except those for period of no gage-height record, July 1-22, which are fair. Records of chemical analyses for the 1970-79 water year are in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--45 years, 662 ft^{3}/s (18.7 m^{3}/s), 13.92 in/yr (354 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,400 ft^{3}/s (719 m^{3}/s) Aug. 16, 1940, gage height, 17.4 ft (5.304 m), from graph based on gage readings; minimum daily, 64 ft^{3}/s (1.81 m^{3}/s) Sept. 5-11, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1797, 25.1 ft (7.650 m) in September or October 1929, from information by Georgia Department of Transportation, discharge, 64,000 ft^{3}/s (1,810 m^{3}/s), by slope-conveyance study.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^{3}/s (56.6 m^{3}/s) and maximum (*):

Date	Time	Discharge		Gage height	
		(ft^{3}/s)	(m^{3}/s)	(ft)	(m)
Feb. 17	2300	*2050	58.1	8.31	2.533

Minimum discharge, 105 ft^{3}/s (2.97 m^{3}/s) July 23, gage height, 0.31 ft (0.094 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	591	365	466	395	352	608	803	289	241	180	165	234
2	569	374	496	386	375	571	1000	254	301	190	195	222
3	561	366	522	379	405	555	957	228	426	170	453	211
4	566	363	521	376	411	542	972	208	377	160	596	197
5	593	374	502	373	420	592	973	193	552	160	516	186
6	631	366	478	371	415	596	948	185	641	170	285	178
7	629	350	455	378	415	591	900	195	708	180	216	185
8	576	336	430	386	432	599	869	218	778	190	206	210
9	492	334	411	388	440	587	854	221	747	210	204	187
10	402	350	398	389	439	584	751	217	601	215	195	176
11	337	365	389	385	541	586	625	216	474	220	227	169
12	289	372	380	384	698	590	555	218	466	210	334	158
13	255	371	371	384	722	593	505	212	652	200	505	148
14	235	359	369	385	876	544	466	200	1530	190	617	142
15	223	355	364	382	1060	483	435	190	1210	180	691	145
16	213	395	370	371	1070	457	404	177	819	160	712	142
17	207	396	389	360	1730	434	381	167	532	140	623	135
18	206	378	411	350	1870	438	361	156	351	130	804	135
19	207	371	430	342	1460	483	343	152	270	120	968	134
20	210	373	422	338	1150	475	325	148	228	115	1140	136
21	208	402	400	349	944	475	316	151	189	112	1010	137
22	208	448	378	361	814	521	313	142	167	110	707	130
23	213	470	420	357	716	608	322	139	150	108	564	127
24	234	467	471	354	649	635	334	133	140	109	504	125
25	254	451	470	352	647	651	337	127	188	110	433	121
26	258	432	452	348	762	665	334	126	286	127	361	117
27	253	431	423	350	784	633	328	126	172	140	312	114
28	249	440	411	359	687	575	316	141	153	183	273	114
29	259	432	412	360	---	541	315	141	169	176	245	113
30	301	439	406	355	---	567	316	132	181	154	230	114
31	355	---	402	355	---	585	---	140	---	184	233	---
TOTAL	10784	11725	13219	11402	21284	17364	16658	5542	13699	5005	14524	4642
MEAN	348	391	426	368	760	560	555	179	457	161	469	155
MAX	631	470	522	395	1870	665	1000	289	1530	220	1140	234
MIN	206	334	364	338	352	434	313	126	140	108	165	113
CFSM	.54	.61	.66	.57	1.18	.87	.86	.28	.71	.25	.73	.24
IN.	.62	.68	.76	.66	1.23	1.00	.96	.32	.79	.29	.84	.27

CAL YR 1980 TOTAL 255077 MEAN 697 MAX 5610 MIN 113 CFSM 1.08 IN 14.69
WTR YR 1981 TOTAL 145848 MEAN 400 MAX 1870 MIN 108 CFSM .62 IN 8.40

02198500 SAVANNAH RIVER NEAR CLYO, GA.
(National stream-quality accounting network station)
(Radiochemical program station)

LOCATION.--Lat 32°31'30", long 81°15'45", Effingham County, Ga.-Jasper County, S.C., Hydrologic Unit 03060109, on downstream side of center pier of drawspan of bridge on Seaboard Coast Line Railroad, 3.0 m (4.8 km) north of Clyo, and at mile 60.9 (98.0 km).

DRAINAGE AREA.--9,850 mi^2 (25,510 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to September 1933, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at same site 1921-43 by National Weather Service (unpublished prior to 1933).

REVISED RECORDS.--WSP 1112: 1940.

GAGE.--Water-stage recorder. Datum of gage is 13.41 ft (4.087 m), National Geodetic Vertical Datum of 1929. Prior to Jan. 31, 1933, nonrecording gage at same site and at datum 4.00 ft (1.22 m) higher. Jan. 31, 1933 to June 12, 1945, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, and Clarks Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, and 02194500).

AVERAGE DISCHARGE.--48 years, 12,100 ft^3/s (343 m^3/s), 16.68 in/yr (424 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 270,000 ft^3/s (7,650 m^3/s) Oct. 6, 1929, gage height, 29.7 ft (9.05 m), present datum (from information by U.S. Army Corps of Engineers), from rating curve extended above 120,000 ft^3/s (3,400 m^3/s); minimum daily discharge, 1,950 ft^3/s (55.2 m^3/s) Sept. 27, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,600 ft^3/s (385 m^3/s) Feb. 16, gage height, 10.39 ft (3.167 m); minimum daily discharge, 5,730 ft^3/s (162 m^3/s) Sept. 26.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9530	7860	8190	7830	7580	8070	8250	6580	6550	6370	5930	6360
2	9990	8300	8010	7660	8070	8220	8980	6390	6570	6080	6000	6500
3	10200	8570	7700	7730	8130	8050	10100	6280	7510	5880	6290	6450
4	10100	8110	7580	7700	7850	7900	10800	6320	8410	5770	6770	6330
5	9990	7570	7470	7590	7970	8000	10900	6350	8400	5820	6960	6430
6	9610	7490	7980	7610	8320	8150	10500	6250	8260	6080	6880	6820
7	8680	7870	9200	7580	8520	8350	9960	6160	8340	6270	6780	6730
8	7950	8030	8860	7870	8510	8540	9460	6200	8590	6270	6600	6270
9	7570	7860	7820	8350	8370	8590	8980	6230	8840	6180	6320	6030
10	7330	7750	7250	8420	8090	8390	8620	6300	8930	6110	6080	5930
11	7260	7610	7250	8180	7770	8080	8390	6490	9250	6170	6130	5890
12	7360	7310	7680	8020	7890	7800	8160	6480	9970	6320	6230	5920
13	7360	7320	7900	7940	9630	7720	7980	6300	9790	6350	6480	6000
14	7210	7740	7770	7790	11600	7760	7830	6120	8610	6220	6850	6210
15	6960	8080	7600	8100	12700	7950	7550	6040	7660	6100	7120	6240
16	6810	8210	7320	8560	13400	8030	7380	6030	7240	6000	7260	6100
17	6850	8330	7100	8270	13200	7750	7290	6190	7320	5930	7290	6020
18	7130	8180	7150	7660	11200	7390	7160	6170	7350	5920	7230	6160
19	7410	7970	7290	7730	9780	7250	7100	6140	7550	5830	7320	6270
20	7460	8660	7220	8100	9900	7840	7170	6150	7700	5800	7330	6200
21	7400	8770	7360	7820	10200	8570	7220	6200	7480	6190	7220	6130
22	7010	8340	7490	7320	10100	8590	7110	6490	7140	6690	7050	6150
23	6850	8190	7600	7210	9710	8730	7350	6690	6600	6440	7000	6280
24	6870	7930	8010	7460	9410	8900	7730	6430	6270	6150	7240	6160
25	7100	7590	8380	7530	9020	8820	7520	6200	6070	5900	7240	5870
26	7350	7410	8140	7400	8590	8570	7360	6040	6190	5770	6870	5730
27	7450	7570	7890	7540	8180	8350	7270	5950	6440	5780	6600	5880
28	7530	7840	7830	7540	7970	8190	7080	5820	6480	5970	6510	6020
29	7530	8370	7990	7470	---	8220	6870	5810	6500	6000	6400	6090
30	7660	8430	8260	7630	---	8130	6710	6070	6530	5990	6300	6100
31	7700	---	8180	7630	---	8070	---	6330	---	5960	6320	---
TOTAL	243210	239260	241470	241240	261660	252980	244780	193200	228540	188310	208600	185270
MEAN	7845	7975	7789	7782	9345	8161	8159	6232	7618	6075	6729	6176
MAX	10200	8770	9200	8560	13400	8900	10900	6690	9970	6690	7330	6820
MIN	6810	7310	7100	7210	7580	7260	6710	5810	6070	5770	5930	5730

CAL YR 1980 TOTAL 5368370 MEAN 14670 MAX 58000 MIN 5970 MEAN† 14185 CFSM† 1.44 IN† 19.55
WTR YR 1981 TOTAL 2728520 MEAN 7475 MAX 13400 MIN 5730 MEAN† 6303 CFSM† 0.64 IN† 8.69

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, AND CLARKS HILL RESERVOIR.

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1938 to April 1939, October 1964 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1974 to July 1977.
WATER TEMPERATURES: May 1938 to April 1939, January 1974 to July 1977.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 110 micromhos June 14, 1977; minimum daily, 42 micromhos July 5, 1974.
WATER TEMPERATURES: Maximum daily, 27.0°C Aug. 23, 1975, July 9, 13, 1977; minimum daily recorded, 4.0°C Jan. 22-24, 26, 30, Feb. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT									
08...	1240	8110	88	--	7.0	--	--	20.0	7.1
23...	0900	6850	--	87	7.3	7.3	18.0	20.0	8.4
NOV									
19...	1030	7920	--	79	6.6	7.0	14.0	15.0	8.1
21...	1130	8800	70	71	6.8	7.3	--	12.5	9.4
DEC									
09...	1130	7850	76	94	6.9	7.5	--	13.5	9.2
17...	0800	7110	--	89	--	7.3	6.5	10.0	8.9
JAN									
08...	1345	7930	75	74	6.8	7.1	--	8.0	10.6
21...	1150	7800	--	81	--	7.5	9.0	8.0	10.6
FEB									
04...	1400	7810	75	79	6.8	7.4	--	8.0	11.0
18...	1145	11100	--	97	--	7.0	16.0	11.0	8.4
MAR									
04...	1330	8040	84	83	6.9	7.0	--	15.0	8.9
18...	1125	7340	--	83	--	7.4	22.0	13.0	9.1
APR									
16...	1330	7360	80	80	7.0	7.1	--	20.0	7.7
22...	1145	7100	--	92	--	7.2	21.0	19.0	7.3
MAY									
05...	1330	6340	102	93	7.0	7.2	--	22.0	7.9
20...	1225	6150	--	91	--	7.3	30.0	22.0	5.0
JUN									
03...	1315	7550	77	80	7.0	7.1	--	25.0	6.7
17...	1055	7250	--	88	--	7.2	33.5	27.5	6.3
JUL									
09...	1200	6170	87	--	7.2	--	--	27.5	5.8
22...	1045	6740	--	92	7.1	7.2	34.0	27.0	6.6
AUG									
19...	1100	7310	--	87	7.1	7.1	21.5	23.0	6.4
26...	1100	6890	85	82	7.0	7.5	--	24.5	6.9
SEP									
03...	1300	6440	87	90	7.0	8.1	--	26.0	6.7
23...	1055	6310	--	95	7.3	7.3	27.0	19.5	7.7

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT											
08...	--	--	3.8	--	--	--	58	108	20	1.0	6.0
23...	30	7	--	--	.8	90	--	--	--	--	--
NOV											
19...	30	7	--	0	.6	90	--	--	--	--	--
21...	--	--	1.6	--	--	--	--	--	15	.00	4.0
DEC											
09...	--	--	3.8	--	--	--	K46	90	15	.00	4.1
17...	35	6	--	--	.6	90	--	--	--	--	--
JAN											
08...	--	--	2.5	--	--	--	K18	--	13	.00	3.8
21...	20	8	--	0	1.0	90	--	--	--	--	--
FEB											
04...	--	--	2.0	--	--	--	K12	--	16	.00	4.7
18...	100	28	--	24	1.7	430	--	--	--	--	--
MAR											
04...	--	--	.30	--	--	--	43	K80	17	--	5.1
18...	35	11	--	11	1.1	90	--	--	--	--	--
APR											
16...	--	--	3.5	--	--	--	K80	52	19	.00	5.3
22...	40	12	--	11	.6	<30	--	--	--	--	--
MAY											
05...	--	--	3.9	--	--	--	K8	560	18	.00	5.2
20...	40	11	--	0	1.1	--	--	--	--	--	--
JUN											
03...	--	--	15	--	--	--	81	228	15	.00	4.3
17...	80	16	--	20	.7	<30	--	--	--	--	--
JUL											
09...	--	--	--	--	--	--	K40	122	17	.00	--
22...	30	11	--	--	.8	<30	--	--	--	--	--
AUG											
19...	60	16	--	--	1.5	930	--	--	--	--	--
26...	--	--	7.7	--	--	--	60	--	17	.00	4.7
SEP											
03...	--	--	5.5	--	--	--	35	510	17	.00	4.6
23...	35	7	--	--	.4	150	--	--	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
OCT										
08...	1.3	9.2	1.2	19	11	7.0	.1	11	78	60
23...	--	--	--	26	--	--	--	--	--	--
NOV										
19...	--	--	--	21	--	--	--	--	--	--
21...	1.1	7.5	1.6	24	5.6	5.0	.1	11	50	52
DEC										
09...	1.1	9.1	1.4	17	6.5	6.1	.1	10	58	51
17...	--	--	--	22	--	7.5	--	--	--	--
JAN										
08...	.9	8.2	1.3	21	6.0	6.2	.1	9.8	54	50
21...	--	--	--	20	--	--	--	--	--	--
FEB										
04...	1.1	8.0	1.1	21	5.4	6.2	<.1	8.9	54	50
18...	--	--	--	18	--	--	--	--	--	--
MAR										
04...	1.1	6.1	1.5	14	7.1	6.9	<.1	8.9	67	47
18...	--	--	--	24	--	--	--	--	--	--
APR										
16...	1.3	9.4	1.1	22	5.3	6.7	<.1	9.7	62	54
22...	--	--	--	26	--	--	--	--	--	--
MAY										
05...	1.3	13	1.2	24	5.9	8.2	<.1	10	69	62
20...	--	--	--	23	--	--	--	--	--	--
JUN										
03...	1.0	7.9	1.4	16	6.7	6.6	<.1	8.7	61	48
17...	--	--	--	20	--	--	--	--	--	--
JUL										
09...	--	--	--	--	--	--	--	--	--	58
22...	--	--	--	21	--	--	--	--	--	--
AUG										
19...	--	--	--	21	--	--	--	--	--	--
26...	1.2	10	1.2	20	4.8	7.2	<.1	10	71	53
SEP										
03...	1.2	10	1.4	20	5.5	7.4	<.1	9.2	67	54
23...	--	--	--	24	--	--	--	--	--	--

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, DISSOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT										
08...	1710	--	.45	.050	.23	.28	.15	.13	.73	.110
23...	--	7	.39	.030	.09	.12	--	--	.51	.100
NOV										
19...	--	8	.40	.100	.13	.23	--	--	.63	.120
21...	1190	--	.41	.020	.49	.51	.25	.26	.92	.130
DEC										
09...	1230	--	.48	.110	.17	.28	.00	.78	.76	.100
17...	--	11	.48	.120	--	--	--	--	--	.090
JAN										
08...	1160	--	.38	.040	.24	.28	.00	.28	.66	.070
21...	--	12	.29	.070	.13	.20	--	--	.49	.070
FEB										
04...	1140	--	.40	.070	.23	.30	.05	.25	.70	.080
18...	--	27	.34	.180	.42	.60	--	--	.94	.100
MAR										
04...	1450	--	.34	.080	.14	.22	.08	.14	.56	.170
18...	--	19	.34	.050	.35	.40	--	--	.74	.110
APR										
16...	1230	--	.45	.050	--	<.10	--	<.10	--	.070
22...	--	20	.48	.030	.47	.50	--	--	.98	.120
MAY										
05...	1180	--	.51	.050	.34	.39	.09	.30	.90	.100
20...	--	16	.50	.020	.18	.20	--	--	.70	.100
JUN										
03...	1240	--	.39	.030	.47	.50	.00	.76	.89	.100
17...	--	19	.41	.030	.57	.60	--	--	1.0	.130
JUL										
09...	966	--	--	--	.50	--	.02	--	1.0	--
22...	--	23	.44	.110	--	--	--	--	--	.120
AUG										
19...	--	13	.41	.050	--	--	--	--	--	.140
26...	1320	--	.53	.020	.37	.39	.09	.30	.92	.090
SEP										
03...	1170	--	.40	.020	.37	.39	.08	.31	.79	.130
23...	--	6	.29	.060	--	--	--	--	--	.080

DATE	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	TRITIUM IN WATER MOLECULES (TU)	TRITIUM WATER MOLECULES COUNT ERROR (TU)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT										
08...	.080	7.2	--	--	--	--	--	17	372	73
23...	--	3.0	--	--	--	1130	20.0	--	--	--
NOV										
19...	--	4.0	--	--	--	--	--	--	--	--
21...	.080	5.0	--	--	65	--	--	13	309	94
DEC										
09...	.070	--	4.7	.5	--	--	--	11	233	94
17...	--	2.0	--	--	--	--	--	--	--	--
JAN										
08...	.060	3.9	--	--	--	--	--	10	214	82
21...	--	2.0	--	--	--	1050	20.0	--	--	--
FEB										
04...	.040	3.3	--	--	--	--	--	7	148	75
18...	--	8.0	--	--	--	1290	22.0	--	--	--
MAR										
04...	.050	--	6.6	.5	65	--	--	--	--	--
18...	--	4.5	--	--	--	857	17.0	--	--	--
APR										
16...	.050	4.4	--	--	--	--	--	14	278	90
22...	--	4.3	--	--	--	799	15.0	--	--	--
MAY										
05...	.060	4.0	--	--	39	--	--	13	223	79
20...	--	4.0	--	--	--	1010	19.0	--	--	--
JUN										
03...	.060	--	6.2	--	640	--	--	36	734	64
17...	--	6.0	--	--	--	924	17.0	--	--	--
JUL										
09...	--	--	--	--	560	--	--	4	67	97
22...	--	4.6	--	--	--	1000	18.0	--	--	--
AUG										
19...	--	3.5	--	--	--	967	18.0	--	--	--
26...	.070	4.3	--	--	--	--	--	8	149	86
SEP										
03...	.090	--	6.3	.3	500	--	--	18	313	63
23...	--	2.4	--	--	--	896	14.0	--	--	--

02198500 SAVANNAH RIVER NEAR CLYO, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)
DEC										
09...	1	1	<50	30	0	1	30	10	0	0
MAR										
04...	0	0	100	100	0	0	10	<10	0	0
JUN										
03...	2	2	100	30	1	1	10	<10	1	0
SEP										
03...	2	1	100	200	<1	<1	10	<10	<1	<1

DATE	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)
DEC									
09...	4	29	630	120	1	7	50	10	.1
MAR									
04...	4	39	730	240	6	5	50	10	.2
JUN									
03...	25	37	900	150	2	2	90	30	<.1
SEP									
03...	15	2	620	210	3	<1	50	<10	<.1

DATE	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC									
09...	.1	3	4	0	0	0	0	100	100
MAR									
04...	<.1	6	9	0	0	0	0	20	140
JUN									
03...	<.1	30	12	0	0	0	0	10	130
SEP									
03...	<.1	33	24	<1	<1	<1	<1	30	130

DATE	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
JAN										
08...	<.7	.5	<.4	.3	2.0	2.1	.5	.5	.05	.09
JUN										
03...	<1.3	.9	1.4	1.0	2.4	2.5	1.4	1.5	.03	.21
AUG										
26...	<1.1	--	1.0	.7	2.3	2.4	<.6	<.6	.04	.02

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)
NOV										
21...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)
NOV										
21...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN

02178500 LAKE BURTON.--Lat 34°47'37", long 83°32'26", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 5.5 mi (8.8 km) downstream from bridge on U.S. Highway 76, 10 mi (16 km) southwest of Clayton, Ga. DRAINAGE AREA, 115 mi^2 (298 km^2). PERIOD OF RECORD, October 1929 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.). Lake is formed by concrete gravity dam. Spillway, crest elevation, 1,860.0 ft (566.93 m) is equipped with eight gates 22 ft (6.71 m) wide by 6.6 ft (2.01 m) high. Dam completed in 1919. Total capacity at elevation 1,866.6 ft (568.94 m), top of gates, is 108,000 acre-ft (133 hm^3), of which 106,000 acre-ft (131 hm^3) is usable storage. Lake is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1862.1	95500	-	-
Oct. 31................	1860.2	90500	-5000	-81
Nov. 30................	1854.2	76000	-14500	-244
Dec. 31................	1846.3	59800	-16200	-263
CAL YR 1980	-	-	-24500	-34
Jan. 31................	1846.9	60900	+1100	+18
Feb. 28................	1855.6	79200	+18300	+329
Mar. 31................	1861.2	93100	+13900	+226
Apr. 30................	1863.6	99500	+6400	+108
May 31................	1866.3	107000	+7500	+122
June 30................	1866.1	106000	-1000	-17
July 31................	1865.7	105000	-1000	-16
Aug. 31................	1861.5	93900	-11100	-181
Sept. 30................	1861.6	94200	+300	+5
WTR YR 1981	-	-	-1300	-2

† Elevation at 0700 on day following that shown in first column.

02179500 MATHIS RESERVOIR.—Lat 34°47'03", long 83°24'57", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 1 mi (1.6 km) upstream from bridge on U.S. Highway 23, 1.8 mi (2.9 km) south of Lakemont, Ga. DRAINAGE AREA, 151 mi^2 (391 km^2) PERIOD OF RECORD, October 1929 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Reservoir is formed by concrete slab and buttress dam. Spillway, crest elevation, 1,682.75 ft (512.90 m) is equipped with 16 gates 15.8 ft (4.82 m) wide by 6.85 ft (2.09 m) high. Dam completed in 1915. Total capacity at elevation 1,689.6 ft (514.99 m), top of gates, is 31,200 acre-ft (38.5 hm^3), of which 23,000 acre-ft (28.4 hm^3) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1686.6	28800	-	-
Oct. 31................	1679.2	23700	-5100	-83
Nov. 30................	1684.2	27100	+3400	+57
Dec. 31................	1687.8	29800	+2700	+44
CAL YR 1980	-	-	-100	0
Jan. 31................	1687.9	29800	0	0
Feb. 28................	1687.8	29800	0	0
Mar. 31................	1687.3	29400	-400	-7
Apr. 30................	1688.0	29900	+500	+8
May 31................	1687.5	29500	-400	-7
June 30................	1688.0	29900	+400	+7
July 31................	1687.4	29400	-500	-8
Aug. 31................	1687.5	29500	+100	+2
Sept. 30................	1688.0	29900	+400	+7
WTR YR 1981	-	-	-1100	+2

† Elevation at 0700 on day following that shown in first column.

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN--Continued

02187250 HARTWELL LAKE.--Lat 34°21'25", long 82°49'20", Hart County, Ga.-Anderson County, S.C., Hydrologic Unit 03060103, in right spillway elevator tower of dam on Savannah River, 0.9 mi (1.4 km) upstream from Big Generostee Creek, 6.4 mi (10.3 km) east of Hartwell, Ga., and at mile 305.0 (490.7 km). DRAINAGE AREA, 2,088 mi^2 (5,408 km^2). PERIOD OF RECORD, October 1959 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Lake is formed by concrete dam with earth embankments at each end; storage began in February 1961, dam completed in 1961. Usable capacity, 1,708,600 acre-ft (2,110 hm^3) between elevations 625.0 ft (190.50 m), normal limit of drawdown, and 665.0 ft (202.69 m), top of gates. Dead storage below 625.0 ft (190.50 m), 1,134,100 acre-ft (1,400 hm^3). Elevation of spillway crest, 630.0 ft (192.02 m). Water is used for flood control, generation of power, and navigation. Capacity table furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 2,871,000 acre-ft (3,540 hm^3) Apr. 8, 1964, elevation, 665.47 ft (202.835 m); minimum, after first filling, 1,182,000 acre-ft (1,460 hm^3) Oct. 16, 1961, elevation, 626.70 ft (191.018 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,328,100 acre-ft (2,870 hm^3) Apr. 13, June 14, 15, elevation, 655.89 ft (199.915 m) minimum, 1,941,100 acre-ft (2,390 hm^3) Sept. 30, elevation, 647.84 ft (197.462 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	655.69	2317900	-	-
Oct. 31................	654.74	2269200	-48700	-792
Nov. 30................	654.38	2251000	-18200	-306
Dec. 31................	653.54	2209000	-42000	-683
CAL YR 1980	-	-	-206700	-285
Jan. 31................	652.42	2154000	-55000	-894
Feb. 28................	654.31	2247500	+93500	+1683
Mar. 31................	654.91	2277800	+30300	+493
Apr. 30................	655.01	2282900	+5100	+86
May 31................	654.83	2273800	-9100	-148
June 30................	654.79	2271800	-2000	-34
July 31................	653.42	2203000	-68800	-1119
Aug. 31................	649.55	2018400	-184600	-3002
Sept. 30................	647.86	1942000	-76400	-1284
WTR YR 1981	-	-	-375900	-519

02194500 CLARKS HILL RESERVOIR.—Lat 33°39'40", long 82°12'00", Columbia County, Ga.-McCormick County, S.C., Hydrologic Unit 03060103, in left spillway elevator tower of dam on Savannah River, 1.6 mi (2.6 km) west of Clarks Hill, 3.7 mi (6.0 km) upstream from Kiokee Creek, and at mile 237.7 (382.5 km). DRAINAGE AREA, 6,150 mi^2 (15,900 km^2), approximately. PERIOD OF RECORD, October 1951 to current year. REVISED RECORDS, WSP 1703: 1953. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1952, nonrecording gage at same site and datum.

Lake is formed by concrete dam with earth dam at each end; storage began in December 1951, dam completed in 1952. Usable capacity, 1,730,000 acre-ft (2,130 hm^3) between elevations 305.0 ft (92.96 m), normal limit of drawdown, and 335.0 ft (102.11 m), top of spillway gates. Dead storage below 305.0 ft (92.96 m), 1,170,000 acre-ft (1,440 hm^3). Elevation of spillway crest, 300.0 ft (91.44 m). Water is used for flood control, generation of power, and navigation. Capacity table furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 3,037,600 acre-ft (3,750 hm^3) Apr. 9, 1964, elevation, 336.72 ft (102.632 m); minimum, 897,900 acre-ft (1,110 hm^3) Feb. 1, 1956, elevation, 296.48 ft (90.367 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,381,900 acre-ft (2,940 hm^3) Oct. 3, elevation, 328.17 ft (100.026 m); minimum, 1,848,300 acre-ft (2,280 hm^3) Sept. 30, elevation, 319.75 ft (97.460 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	327.30	2321000	-	-
Oct. 31................	326.55	2268500	-52500	-854
Nov. 30................	325.41	2188700	-79800	-1341
Dec. 31................	324.30	2118000	-70700	-1150
CAL YR 1980	-	-	-120400	-166
Jan. 31................	322.81	2028600	-89400	-1454
Feb. 28................	327.71	2349700	+321100	+5781
Mar. 31................	326.78	2284600	-65100	-1059
Apr. 30................	325.56	2199200	-85400	-1435
May 31................	323.99	2099400	-99800	-1623
June 30................	322.60	2016000	-83400	-1402
July 31................	321.69	1961400	-54600	-888
Aug. 31................	322.11	1986600	+25200	+410
Sept. 30................	319.75	1848300	-138300	-2324
WTR YR 1981	-	-	-472700	-653

02201000 WILLIAMSON SWAMP CREEK AT DAVISBORO, GA.

LOCATION.—Lat 32°58'32", long 82°36'36", Washington County, Hydrologic Unit 03060201, at bridge on State Highway 231 at Davisboro, 1.2 mi (1.9 km) downstream from Central of Georgia Railroad bridge, and 1.9 mi (3.1 km) downstream from Sun Hill Creek.

DRAINAGE AREA.—109 mi^2 (282 km^2).

PERIOD OF RECORD.--Water years 1979-80 (annual maximum), May 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft (82 m), from topographic map. August 16, 1978, to May 8, 1980, crest-stage gage at same site and datum.

REMARKS.—Records good.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 3,430 ft^3/s (97.1 m^3/s) Mar. 13, 1980, gage height, 11.13 ft (3.392 m); minimum discharge, 11 ft^3/s (0.31 m^3/s) July 23-25, 1981.

EXTREMES FOR CURRENT YEAR.—Peak discharge above base of 650 ft^3/s (18.4 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 12	0430	*698	19.8	7.75	2.362

Minimum discharge, 11 ft^3/s (0.31 m^3/s) July 23-25, gage height, 2.66 ft (0.811m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	234	68	57	55	53	64	189	90	93	20	24	20
2	150	56	56	52	72	75	469	85	122	23	63	18
3	75	50	54	51	88	78	269	54	72	28	48	18
4	50	55	54	51	64	72	141	40	77	30	36	21
5	40	71	52	50	63	136	110	36	78	30	29	22
6	36	65	52	49	60	155	99	35	62	58	25	22
7	34	56	52	66	56	101	88	39	61	42	25	21
8	33	51	54	78	74	84	82	43	151	30	34	20
9	32	49	55	64	62	75	77	41	118	25	31	19
10	31	48	59	58	100	70	73	38	62	22	30	17
11	30	47	70	55	401	68	72	37	44	20	41	16
12	29	46	67	54	598	65	66	35	37	19	48	15
13	27	45	63	52	259	63	60	33	33	18	43	15
14	28	46	60	53	133	63	57	32	29	17	35	15
15	28	64	61	53	103	61	53	30	26	16	28	16
16	29	122	61	53	94	64	53	29	24	15	25	18
17	31	119	64	51	88	64	49	28	22	15	29	19
18	32	93	62	50	94	71	49	28	21	17	43	18
19	33	73	61	50	113	114	46	27	20	17	36	16
20	33	62	60	52	107	99	46	25	42	15	31	15
21	34	58	59	57	93	79	91	26	28	14	29	15
22	32	56	58	59	82	82	96	25	23	13	29	14
23	35	55	62	55	83	106	73	24	20	12	28	14
24	57	66	66	52	82	91	128	24	19	12	27	14
25	57	81	68	51	75	79	129	18	25	12	26	14
26	47	76	60	51	72	71	77	15	23	14	23	14
27	42	76	57	51	69	67	59	19	25	16	22	15
28	51	81	60	56	66	64	49	19	25	16	21	15
29	70	69	63	56	---	61	44	15	22	14	21	14
30	76	60	60	54	---	78	45	14	19	14	21	14
31	88	---	57	56	---	109	---	15	---	14	21	---
TOTAL	1604	1964	1844	1695	3304	2529	2939	1019	1423	628	972	504
MEAN	51.7	65.5	59.5	54.7	118	81.6	98.0	32.9	47.4	20.3	31.4	16.8
MAX	234	122	70	78	598	155	469	90	151	58	63	22
MIN	27	45	52	49	53	61	44	14	19	12	21	14
CFSM	.47	.60	.55	.50	1.08	.75	.90	.30	.44	.19	.29	.15
IN.	.55	.67	.63	.58	1.13	.86	1.00	.35	.49	.21	.33	.17

WTR YR 1981 TOTAL 20425 MEAN 56.0 MAX 598 MIN 12 CFSM .51 IN 6.97

02202190 OGEECHEE RIVER NEAR OLIVER, GA.

LOCATION.--Lat 32°29'45", long 81°33'11", Screven-Bulloch County line, Hydrologic Unit 03060202, at bridge on State Highway 24, 0.3 mi (0.5 km) upstream from Ogeechee Creek, and 2.0 mi (3.2 km) southwest of Oliver.
DRAINAGE AREA.--2,230 mi2 (5,780 km2), approximately.
PERIOD OF RECORD.--August 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
23...	0945	307	7.3	7.4	16.5	18.5	6.7
NOV							
19...	1130	514	6.7	7.2	11.0	12.5	9.0
DEC							
17...	0845	634	--	7.2	8.0	9.0	9.8
JAN							
21...	1245	682	--	7.4	10.0	5.0	12.0
FEB							
18...	1225	1930	--	6.6	16.0	12.0	7.9
MAR							
18...	1210	1870	--	7.0	21.5	13.0	8.2
APR							
22...	1235	1250	--	7.3	20.5	19.0	4.8
MAY							
20...	1310	326	--	7.4	30.0	24.0	5.0
JUN							
17...	1145	674	--	6.9	34.0	28.0	5.9
JUL							
22...	1130	181	8.2	--	34.0	29.0	7.7
AUG							
19...	1140	496	7.1	7.2	22.0	23.0	6.6
SEP							
23...	1140	165	7.9	7.7	28.0	20.0	8.6

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
23...	118	40	5	.8	70	33	5	.24	.030	.060	4.5
NOV											
19...	102	50	3	.5	40	31	<1	.08	.030	.060	6.5
DEC											
17...	91	40	3	.7	390	26	3	<.02	<.020	.060	4.0
JAN											
21...	89	30	6	.5	<90	24	6	.07	<.020	.020	2.0
FEB											
18...	79	70	12	1.2	<30	10	7	<.02	.020	.050	10
MAR											
18...	65	60	8	1.3	90	17	4	<.02	<.020	.040	9.0
APR											
22...	84	105	6	.4	40	31	<1	.16	.090	.080	14
MAY											
20...	101	70	5	.9	--	38	2	.28	.020	.080	5.0
JUN											
17...	81	80	7	.5	230	25	2	.21	.040	.090	11
JUL											
22...	--	--	--	--	70	--	--	.02	<.020	.130	7.5
AUG											
19...	90	50	4	1.3	150	24	7	.25	.040	<.020	5.0
SEP											
23...	147	25	2	.4	210	50	<1	.06	.020	.060	2.8

02202500 OGEECHEE RIVER NEAR EDEN, GA.
(National stream-quality accounting network station)

LOCATION.--Lat 32°11'29", long 81°24'58", Effingham-Bryan County line, Hydrologic Unit 03060202, on right bank 600 ft (183 m) downstream from bridge on U.S. Highways 25, 80, and 280, 2 mi (3.2 km) west of Eden, 2 mi (3.2 km) upstream from Seaboard Coast Line Railroad bridge, and 3 mi (4.8 km) upstream from Black Creek.

DRAINAGE AREA.--2,650 mi^2 (6,860 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 19.64 ft (5.986 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1939, nonrecording gage at site 600 ft (183 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--44 years, 2,358 ft^3/s (66.8 m^3/s), 12.08 in/yr (307 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,800 ft^3/s (816 m^3/s) Mar. 19, 1980, gage height, 14.77 ft (4.502 m); minimum observed, 131 ft^3/s (3.71 m^3/s) Sept. 12-14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1840, 20 ft (6.10 m) in October 1929, from data furnished by Central of Georgia Railway Co.

Flood of January 1925, reached a stage of 19.5 ft (5.94 m), from information as explained above.

Flood of April 1936, reached a stage of 15.2 ft (4.63 m), from information as explained above, discharge, 30,000 ft^3/s (850 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,800 ft^3/s (136 m^3/s) and minimum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 27	0900	*5420	153	9.11	2.777

Minimum discharge, 185 ft^3/s (5.24 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	441	747	863	665	4270	2040	898	263	402	216	378
2	306	467	742	846	679	3580	2270	878	298	363	230	355
3	344	481	725	824	707	3070	2420	868	338	351	237	333
4	366	492	709	803	762	2710	2550	861	314	345	239	313
5	404	504	705	782	799	2560	2620	849	322	339	239	300
6	442	520	710	764	798	2460	2640	821	335	332	247	290
7	483	538	725	760	796	2470	2660	796	361	319	256	282
8	529	556	746	746	799	2520	2710	701	402	307	281	275
9	574	572	763	733	812	2530	2830	632	455	303	322	270
10	615	584	774	721	834	2460	2970	593	511	304	349	265
11	654	587	775	707	903	2350	3110	562	560	315	365	268
12	690	579	760	693	971	2240	3210	531	617	322	371	272
13	729	562	738	679	1050	2140	3230	505	706	332	355	277
14	773	551	711	670	1130	2050	3170	486	863	337	343	270
15	801	551	684	664	1180	1970	3060	476	1050	324	345	260
16	766	558	665	661	1220	1920	2920	464	1100	298	347	250
17	626	561	650	663	1250	1870	2750	448	954	274	361	240
18	499	554	643	668	1310	1830	2560	429	768	261	411	233
19	436	540	642	672	1410	1840	2340	411	708	239	487	225
20	400	530	646	672	1560	1830	2070	393	750	231	512	215
21	375	521	650	674	1720	1820	1830	375	754	228	567	213
22	359	517	658	660	1940	1850	1640	356	778	217	602	210
23	356	526	682	644	2210	1900	1470	346	767	211	605	213
24	358	547	718	631	2640	1900	1330	334	614	205	587	213
25	355	569	759	622	3610	1900	1220	321	460	202	575	210
26	355	596	787	617	4900	1880	1140	307	440	207	595	205
27	355	639	800	615	5360	1860	1070	297	534	202	575	200
28	356	673	814	626	4980	1840	1020	286	597	210	527	195
29	362	706	830	638	---	1840	965	278	548	212	485	190
30	382	735	844	655	---	1900	926	272	468	223	430	187
31	409	---	860	664	---	1950	---	267	---	222	400	---
TOTAL	14719	16757	22662	21637	46995	69310	66741	16041	17635	8637	12461	7607
MEAN	475	559	731	698	1678	2236	2225	517	588	279	402	254
MAX	801	735	860	863	5360	4270	3230	898	1100	402	605	378
MIN	260	441	642	615	665	1820	926	267	263	202	216	187
CFSM	.18	.21	.28	.26	.63	.84	.84	.20	.22	.11	.15	.10
IN.	.21	.24	.32	.30	.66	.97	.94	.23	.25	.12	.17	.11

CAL YR 1980 TOTAL 927752 MEAN 2535 MAX 28600 MIN 181 CFSM .96 IN 13.02
WTR YR 1981 TOTAL 321202 MEAN 880 MAX 5360 MIN 187 CFSM .33 IN 4.51

02202500 OGEECHEE RIVER NEAR EDEN, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to current year.

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: October 1975 to September 1981 (discontinued).

WATER TEMPERATURES: October 1972 to September 1981 (discontinued).

INSTRUMENTATION.—Water-temperature recorder October 1972 to September 1981. Specific-conductance recorder October 1975 to September 1981.

REMARKS.—No daily water-temperature record Jan. 6-9, 17-20 and no daily specific-conductance record Oct. 16-27, Dec. 19 to Jan. 3, and Mar. 5 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: Maximum recorded, 183 micromhos Sept. 13, 1978; minimum, 23 micromhos Mar. 20, 1980.

WATER TEMPERATURES: Maximum, 32.0°C July 9-11, 13, 15, 21, 22, 1977, Aug. 9, 1980; minimum, 1.5°C Jan. 19-21, 1977.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum recorded, 153 micromhos Oct 1; minimum recorded, 56 micromhos Mar. 1, 2.

WATER TEMPERATURES: Maximum, 31.5°C July 16, 20, 22, 23, 25, 29; minimum, 3.0°C Jan. 13, 14.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT								
07...	1530	490	132	129	7.2	7.3	20.5	8.6
NOV								
04...	1400	492	105	100	7.1	7.2	17.0	8.9
DEC								
16...	1400	665	92	89	7.2	7.1	9.5	10.8
JAN								
28...	1345	628	92	91	7.1	7.4	8.0	11.8
FEB								
18...	1500	1310	78	78	6.6	6.8	12.0	9.5
MAR								
17...	1330	1860	69	63	6.8	6.8	13.0	7.8
APR								
07...	1430	2640	68	68	6.8	--	18.0	6.4
MAY								
05...	1300	848	89	91	7.3	7.3	21.0	--
JUN								
03...	1200	348	112	113	7.7	7.7	28.0	8.0
JUL								
07...	1330	320	95	100	7.7	7.3	29.0	7.7
AUG								
11...	1300	365	120	118	8.1	7.8	29.5	8.0
SEP								
08...	1330	275	115	112	7.7	7.8	28.5	6.8

DATE	TUR-BID-ITY (NTU)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT											
07...	2.0	77	74	35	9.0	12	1.2	11	1.6	26	17
NOV											
04...	.80	110	53	26	.00	8.6	1.0	9.3	1.1	26	8.9
DEC											
16...	1.1	K18	32	22	.00	7.0	1.0	8.9	.9	27	8.2
JAN											
28...	1.5	K7	K4	24	4.0	8.1	1.0	7.7	.8	20	7.1
FEB											
18...	2.5	48	70	21	10	6.2	1.3	6.1	1.2	11	12
MAR											
17...	2.9	31	K16	20	1.0	6.2	1.2	5.1	1.2	19	6.2
APR											
07...	4.0	64	110	19	1.0	5.7	1.2	5.5	1.3	18	4.8
MAY											
05...	2.9	15	25	28	2.0	9.3	1.2	6.0	1.2	26	3.7
JUN											
03...	1.7	K12	K9	30	.00	10	1.3	11	1.1	40	6.3
JUL											
07...	3.7	28	K20	32	5.0	11	1.2	5.3	1.3	27	4.6
AUG											
11...	4.3	33	25	36	.00	12	1.4	11	1.3	40	7.8
SEP											
08...	2.1	30	38	28	.00	10	.7	8.9	1.2	37	3.7

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT 07...	7.2	.1	12	107	80	142	.38	.110	.29	.40	.07
NOV 04...	7.0	.0	12	61	64	81.0	.17	.240	.00	.24	.00
DEC 16...	6.2	.1	14	76	63	136	.05	.010	.21	.22	.00
JAN 28...	6.2	<.1	10	63	54	107	.11	.030	.13	.16	.00
FEB 18...	6.7	<.1	9.7	72	50	255	.03	.030	.37	.40	.03
MAR 17...	6.5	<.1	10	65	48	326	.02	.020	.24	.26	.00
APR 07...	6.6	<.1	8.8	76	45	542	.01	.040	.72	.76	.41
MAY 05...	5.6	<.1	12	72	55	165	.19	.020	.47	.49	.06
JUN 03...	5.8	<.1	4.0	71	64	66.7	.03	.050	.63	.68	.23
JUL 07...	6.0	<.1	13	81	61	70.0	.19	.010	.36	.37	.11
AUG 11...	6.8	<.1	13	89	78	87.7	.09	.030	.32	.35	.04
SEP 08...	6.6	<.1	12	84	66	62.4	.25	.050	.20	.25	.00

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. FINER THAN .062 MM
OCT 07...	.33	.78	.090	.060	--	4.0	.3	--	31	41	95
NOV 04...	.37	.41	.080	.050	6.0	--	--	100	--	--	--
DEC 16...	.24	.27	.040	.030	5.7	6.0	.3	--	--	--	--
JAN 28...	.24	.27	.030	.030	--	3.6	.2	--	4	6.8	83
FEB 18...	.37	.43	.030	.050	10	--	--	--	9	32	92
MAR 17...	.37	.28	.040	.030	9.0	--	--	170	5	25	79
APR 07...	.35	.77	.050	.030	--	13	.5	--	10	71	68
MAY 05...	.43	.68	.080	.060	7.3	--	--	52	6	14	95
JUN 03...	.45	.71	.040	.030	5.1	--	--	450	4	3.8	95
JUL 07...	.26	.56	.080	.070	--	4.7	.4	64	5	4.3	96
AUG 11...	.31	.44	.090	.050	6.5	--	--	--	10	9.9	100
SEP 08...	.31	.50	.070	.060	5.3	--	--	320	7	5.2	100

02202500 OGEECHEE RIVER NEAR EDEN, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
OCT										
07...	1	1	100	40	0	2	10	10	0	0
JAN										
28...	1	1	100	20	0	2	10	10	1	1
APR										
07...	0	0	<50	30	0	5	<10	<10	0	0
JUL										
07...	3	1	100	30	10	3	10	10	6	1

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
OCT									
07...	2	4	490	160	1	1	120	30	<.1
JAN									
28...	0	0	630	340	0	0	30	10	.2
APR									
07...	3	0	910	500	8	0	60	40	.2
JUL									
07...	3	4	840	630	5	3	80	50	.1

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT									
07...	<.1	2	1	0	0	0	0	10	1
JAN									
28...	<.1	3	0	0	0	0	0	20	--
APR									
07...	<.1	5	0	0	0	0	0	60	7
JUL									
07...	<.1	10	5	0	0	0	0	10	<4

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	153	149	126	114	73	69	---	---	93	89	59	56
2	149	134	114	108	69	68	---	---	97	93	56	56
3	132	113	111	109	70	69	---	---	96	96	60	57
4	117	110	109	96	76	70	83	81	96	96	64	60
5	125	118	96	94	79	76	85	83	95	95	---	---
6	132	125	94	94	82	79	83	80	95	95	---	---
7	133	131	95	91	81	78	81	79	94	94	---	---
8	131	120	96	94	79	75	81	78	94	91	---	---
9	120	113	94	89	75	72	84	79	90	90	---	---
10	113	111	89	84	73	69	85	84	90	84	---	---
11	111	105	85	83	68	67	87	86	85	80	---	---
12	105	100	87	84	75	68	88	87	80	80	---	---
13	100	96	89	87	79	74	88	87	79	79	---	---
14	96	91	91	89	85	80	88	88	79	79	---	---
15	91	88	92	90	87	85	88	86	78	77	---	---
16	---	---	92	90	90	88	87	86	78	75	---	---
17	---	---	92	91	89	84	87	86	81	74	---	---
18	---	---	92	85	84	82	87	87	79	76	---	---
19	---	---	94	85	---	---	86	86	92	75	---	---
20	---	---	100	95	---	---	86	86	88	67	---	---
21	---	---	102	100	---	---	86	85	68	65	---	---
22	---	---	103	98	---	---	84	82	67	64	---	---
23	---	---	101	98	---	---	84	82	65	63	---	---
24	---	---	105	101	---	---	89	85	63	62	---	---
25	---	---	106	102	---	---	91	88	62	62	---	---
26	---	---	102	95	---	---	92	91	62	61	---	---
27	---	---	94	83	---	---	92	88	61	60	---	---
28	139	132	83	79	---	---	90	88	60	59	---	---
29	140	139	80	77	---	---	91	85	---	---	---	---
30	139	129	79	73	---	---	89	85	---	---	---	---
31	128	126	---	---	---	---	89	89	---	---	---	---
MONTH	153	88	126	73	90	67	92	78	97	59	64	56

02202500 OGEECHEE RIVER NEAR EDEN, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.0	22.0	16.5	15.5	10.0	9.5	7.0	6.0	9.5	8.0	14.5	14.0
2	23.5	22.5	16.5	15.5	10.5	9.5	7.0	6.5	10.5	9.5	15.5	14.5
3	23.0	22.0	16.5	15.5	10.5	10.0	7.0	6.0	9.5	8.0	15.5	14.5
4	22.0	20.5	17.5	16.0	10.0	9.5	7.0	6.5	8.0	7.5	15.0	14.5
5	21.5	20.0	17.0	16.0	9.5	9.0	6.5	5.5	7.5	6.5	16.0	15.0
6	20.5	19.5	16.0	15.0	9.5	9.0	---	---	7.0	6.5	15.5	14.5
7	20.0	19.0	15.0	14.5	9.5	9.0	---	---	7.0	6.5	15.0	14.0
8	20.0	18.5	15.0	14.0	10.0	9.5	---	---	8.5	7.0	14.0	13.5
9	20.0	18.5	15.5	14.5	10.5	9.5	---	---	8.0	7.5	14.0	13.0
10	20.0	19.0	15.5	14.5	11.0	10.5	5.5	5.0	9.5	7.5	14.0	13.0
11	20.5	19.5	15.0	14.5	11.0	10.5	5.0	4.5	11.0	10.0	13.5	12.5
12	20.0	19.5	14.5	13.5	10.5	10.0	4.5	4.0	10.0	9.0	13.5	12.5
13	19.0	18.5	13.5	12.5	10.0	9.5	4.0	3.0	9.5	8.5	14.0	13.0
14	18.5	17.5	14.0	13.0	10.0	9.5	3.5	3.0	9.5	8.5	14.0	13.0
15	18.5	17.5	14.5	14.0	10.0	9.0	5.0	3.5	10.0	9.0	14.0	13.0
16	19.0	17.5	14.5	14.5	9.5	9.5	5.0	4.5	10.5	10.0	14.0	13.5
17	19.5	18.5	14.5	14.0	9.5	9.5	---	---	12.0	10.5	13.5	12.5
18	20.5	19.5	14.0	13.5	9.5	8.5	---	---	12.0	11.5	13.5	12.5
19	22.0	20.5	13.5	12.5	9.0	8.0	---	---	14.0	12.0	13.5	13.0
20	22.0	21.0	12.5	11.5	9.0	8.5	---	---	14.5	13.5	13.0	12.0
21	21.0	20.0	12.0	11.0	8.5	7.0	5.5	5.0	14.5	14.0	12.5	11.5
22	20.0	19.5	11.5	10.5	7.0	6.5	6.0	5.5	14.5	14.0	12.5	12.0
23	19.5	19.0	11.5	10.5	7.0	6.5	7.0	5.5	15.0	14.5	12.0	11.0
24	19.0	18.0	13.0	11.5	7.0	6.0	7.5	6.5	14.5	13.5	12.0	10.5
25	18.5	17.5	13.0	12.5	7.0	6.0	7.5	6.5	14.0	13.0	12.5	11.0
26	17.5	16.0	12.5	12.0	6.0	5.0	8.0	6.5	14.0	13.0	13.0	11.5
27	17.0	15.5	13.0	12.0	5.0	5.0	9.0	7.5	14.5	13.5	14.0	12.5
28	17.0	16.5	13.0	11.5	5.0	4.5	9.5	9.0	14.0	13.0	15.0	13.5
29	18.0	17.0	11.5	11.0	5.5	5.0	9.5	9.0	---	---	15.5	14.5
30	18.0	17.0	11.0	10.0	6.0	5.5	9.5	9.0	---	---	16.5	15.5
31	17.0	16.0	---	---	7.0	6.0	9.5	8.5	---	---	18.0	16.5
MONTH	23.5	15.5	17.5	10.0	11.0	4.5	9.5	3.0	15.0	6.5	18.0	10.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.0	18.0	23.0	22.5	28.5	26.5	27.0	26.0	27.0	26.0	26.5	25.5
2	18.5	17.5	22.5	21.5	28.5	27.5	26.0	25.0	26.5	25.5	27.5	26.0
3	18.0	17.5	22.0	21.0	28.5	27.0	25.5	24.5	28.0	25.5	27.0	26.0
4	18.5	18.0	21.5	20.0	28.5	27.5	26.5	25.5	29.0	27.0	27.0	26.0
5	19.0	18.5	21.5	20.0	29.5	28.0	28.0	26.0	30.0	28.0	27.0	26.0
6	19.0	18.5	21.0	20.5	29.5	28.5	29.0	27.0	30.5	29.0	26.5	25.5
7	18.5	17.5	21.0	19.5	29.5	29.0	29.0	28.0	30.0	29.5	27.0	26.0
8	18.0	17.0	19.5	19.0	29.5	28.5	29.5	28.5	29.5	28.5	28.5	26.5
9	18.0	17.0	20.0	19.5	29.0	28.0	29.5	28.5	28.5	27.5	28.0	27.0
10	18.0	17.5	21.0	20.0	29.0	28.5	30.0	29.0	29.0	27.0	28.0	25.5
11	19.0	18.0	22.5	21.0	30.0	28.5	30.5	29.0	29.5	28.0	27.0	25.0
12	19.5	18.5	22.5	21.0	29.0	28.0	30.0	29.5	29.0	28.0	26.5	25.0
13	20.5	19.5	22.5	21.0	29.0	28.0	30.5	28.5	29.0	27.5	27.0	25.0
14	21.0	20.5	23.0	21.5	29.0	28.0	31.0	29.5	29.0	28.0	27.0	25.0
15	21.0	20.5	23.5	22.5	28.0	27.0	31.0	30.0	29.5	27.5	28.0	25.5
16	20.0	19.5	23.5	22.0	28.5	27.5	31.5	30.5	29.5	28.0	27.0	25.5
17	19.5	19.0	24.0	22.0	29.5	28.5	31.0	30.5	29.5	28.5	26.5	25.0
18	20.0	19.0	24.5	22.5	30.0	29.0	30.5	29.0	29.0	27.0	25.5	24.0
19	20.5	20.0	24.5	23.5	30.0	29.0	30.5	28.5	27.0	25.0	24.0	22.0
20	21.5	20.5	24.5	24.0	29.5	28.5	31.5	29.5	25.0	24.5	23.0	20.5
21	21.0	19.5	24.0	22.5	30.0	28.5	31.0	30.0	24.5	24.0	23.0	20.5
22	19.5	19.0	23.5	21.5	29.5	28.5	31.5	29.5	24.0	23.5	23.5	21.5
23	20.0	19.0	24.5	22.5	30.0	29.0	31.5	30.0	24.0	24.0	24.0	22.5
24	20.5	20.0	25.0	23.0	30.5	29.5	31.0	29.5	24.5	23.0	24.0	23.0
25	20.5	20.0	25.5	23.5	30.5	29.0	31.5	29.5	25.0	24.0	23.0	21.5
26	20.5	19.5	25.0	24.5	31.0	29.5	30.5	29.5	25.0	24.5	22.5	21.0
27	21.0	19.5	25.0	24.5	30.5	28.5	30.0	29.0	25.0	24.0	23.0	21.5
28	21.5	20.5	26.0	24.0	28.5	27.5	31.0	29.0	25.0	24.5	24.0	22.0
29	22.5	21.5	26.5	24.5	27.5	26.0	31.5	29.5	25.5	25.0	24.0	22.5
30	23.0	22.0	26.5	25.0	27.5	25.5	30.0	28.5	25.5	25.0	24.0	22.5
31	---	---	27.5	26.0	---	---	28.5	27.0	26.5	25.0	---	---
MONTH	23.0	17.0	27.5	19.0	31.0	25.5	31.5	24.5	30.5	23.0	28.5	20.5
YEAR	31.5	3.0										

02202600 BLACK CREEK NEAR BLITCHTON, GA.

LOCATION.--Lat 32°10'04", long 81°29'18", Bryan County, Hydrologic Unit 03060202, at bridge on U.S. Highway 280 (State Highway 30), 4.2 mi (6.8 km) upstream from Mill Creek, 5.8 mi (9.3 km) southwest of Blitchton, and 8.7 mi (14.0 km) upstream from mouth.

DRAINAGE AREA.--232 mi^2 (601 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1951, 1954, 1959, 1961-62, 1964-68, 1973. February 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, Feb. 19 to Mar. 3 and period of bridge construction, Aug. 4 to Sept. 30, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,590 ft^3/s (45.0 m^3/s) Mar. 15, 1980, gage height, 9.98 ft (3.042 m); zero flow was observed August 19, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 290 ft^3/s (8.21 m^3/s) Apr. 6, gage height, 6.75 ft (2.057 m), no peaks above base of 900 ft^3/s (25.5 m^3/s); minimum discharge, 0.64 ft^3/s (0.018 m^3/s) July 15, 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	2.6	2.2	3.3	3.3	10	82	4.1	.98	1.4	9.7	10
2	6.1	2.2	2.1	3.1	4.1	9.0	163	2.8	1.3	1.4	28	8.8
3	4.3	2.0	2.0	2.9	4.8	8.4	193	2.1	3.1	1.3	34	13
4	3.4	1.9	1.9	2.8	4.5	7.8	232	1.6	2.1	1.2	24	11
5	2.9	1.9	1.9	2.6	4.3	18	253	1.5	1.3	1.3	18	7.0
6	2.6	1.8	1.8	2.5	4.1	28	284	1.3	1.1	1.2	15	4.8
7	2.4	1.8	1.8	3.0	4.3	23	257	2.1	.95	1.2	17	3.7
8	2.3	1.7	1.8	3.4	4.2	20	189	2.3	1.0	1.2	28	2.9
9	2.0	1.7	1.8	3.4	4.0	22	128	2.1	1.3	1.1	41	2.4
10	1.9	1.6	1.6	3.2	4.0	24	85	2.1	1.2	.98	24	1.9
11	1.7	1.6	1.7	3.0	20	23	62	2.0	1.3	.92	15	1.6
12	1.6	1.6	1.7	2.9	27	20	50	1.9	5.3	.85	9.4	1.6
13	1.5	1.6	1.7	2.8	16	18	41	1.8	6.9	.80	6.2	1.7
14	1.5	1.6	1.7	2.8	11	16	33	1.7	5.0	.74	4.1	1.6
15	1.5	1.6	1.6	2.7	8.6	14	27	1.6	3.4	.69	3.5	1.6
16	1.5	1.6	1.7	2.7	7.1	13	23	1.5	6.0	.69	3.4	1.7
17	1.5	1.7	1.7	2.6	6.1	14	18	1.5	41	.69	3.9	1.8
18	1.5	1.7	1.7	2.6	14	15	14	1.4	32	.85	3.9	1.6
19	1.4	1.7	1.8	2.6	22	27	11	1.6	20	1.0	4.6	1.5
20	1.4	1.7	1.9	2.6	23	26	7.6	1.5	14	.85	6.2	1.5
21	1.4	1.8	1.8	3.0	21	25	6.7	1.5	23	2.0	5.5	1.5
22	1.4	1.8	1.7	3.1	19	39	8.0	1.4	16	2.0	4.2	1.6
23	1.7	1.8	1.9	2.9	21	76	9.7	1.3	19	1.6	3.7	1.7
24	2.1	1.9	2.1	2.8	19	76	12	1.3	19	4.1	3.9	1.7
25	2.0	2.0	2.1	2.8	16	77	16	1.2	13	7.0	3.4	1.6
26	1.8	2.0	2.0	2.8	14	83	22	1.2	8.5	4.1	9.4	1.6
27	1.7	2.9	2.1	2.8	12	81	19	1.2	4.6	3.2	14	1.5
28	1.8	2.7	3.4	3.3	11	72	15	1.2	2.9	2.9	16	1.4
29	1.9	2.4	5.1	3.8	---	59	10	1.2	2.0	5.3	24	1.4
30	2.7	2.2	4.3	3.6	---	51	6.5	1.1	1.5	9.1	17	1.4
31	3.3	---	3.7	3.5	---	58	---	1.1	---	9.7	15	---
TOTAL	75.8	57.1	66.3	91.9	329.4	1053.2	2277.5	52.2	258.73	71.36	415.0	97.1
MEAN	2.45	1.90	2.14	2.96	11.8	34.0	75.9	1.68	8.62	2.30	13.4	3.24
MAX	11	2.9	5.1	3.8	27	83	284	4.1	41	9.7	41	13
MIN	1.4	1.6	1.6	2.5	3.3	7.8	6.5	1.1	.95	.69	3.4	1.4
CFSM	.01	.008	.009	.01	.05	.15	.33	.007	.04	.01	.06	.01
IN.	.01	.01	.01	.01	.05	.17	.37	.01	.04	.01	.07	.02

WTR YR 1981 TOTAL 4845.59 MEAN 13.3 MAX 284 MIN .69 CFSM .06 IN .78

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.

LOCATION.--Lat 32°11'05", long 81°53'20", Evans County, Hydrologic Unit 03060208, on right bank 400 ft (122 m) upstream from bridge on State Highway 73, 2 mi (3.2 km) northeast of Claxton, and 10 mi (16.1 km) upstream from Lotts Creek.

DRAINAGE AREA.--555 mi^2 (1,440 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1937 to current year.

REVISED RECORDS.--WSP 1112: 1939-41, 1944.

GAGE.--Water-stage recorder. Datum of gage is 80.5 ft (24.54 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Oct. 20, 1949, nonrecording gage at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--44 years, 464 ft^3/s (13.1 m^3/s), 11.35 in/yr (288 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s (357 m^3/s) May 26, 1966, gage height, 16.58 ft (5.054 m); minimum observed discharge, 0.86 ft^3/s (0.024 m^3/s) Sept. 8-14, Oct. 25, 26, Nov. 2, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,760 ft^3/s (49.8 m^3/s) Apr. 4, gage height, 9.78 ft (2.981 m), no peaks above base of 1,800 ft^3/s (51.0 m^3/s); minimum discharge, 0.90 ft^3/s (0.025 m^3/s) Oct. 15, 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	3.1	7.1	62	36	213	564	108	5.0	3.2	9.1	142
2	4.7	2.9	7.1	60	48	186	924	88	4.9	4.4	11	120
3	5.5	2.1	7.1	53	64	168	1240	69	6.2	5.2	11	97
4	5.3	2.6	8.0	46	63	155	1640	55	6.0	4.7	11	77
5	4.1	2.3	8.8	41	59	186	1670	45	5.5	4.4	11	60
6	3.8	2.3	8.6	38	58	245	1390	37	4.8	5.1	8.9	48
7	3.2	2.3	8.8	40	59	263	1260	38	4.5	5.2	8.5	39
8	2.8	2.3	9.4	45	59	272	1230	53	4.6	5.8	14	37
9	2.8	2.9	11	48	60	279	1140	60	4.5	5.6	20	32
10	3.0	3.1	12	44	64	280	914	53	4.3	4.9	38	30
11	2.8	3.5	12	41	95	313	714	46	4.0	5.1	129	25
12	2.2	3.6	11	39	151	348	572	42	4.2	5.5	370	20
13	1.5	3.6	11	37	162	330	460	41	4.0	8.3	444	17
14	1.4	4.2	11	36	164	300	392	36	4.0	6.9	367	15
15	1.2	4.4	11	38	186	255	327	33	3.9	6.2	259	13
16	1.2	5.0	10	42	189	209	270	28	3.2	4.5	171	12
17	1.3	5.2	10	41	223	174	226	25	2.4	3.2	117	12
18	1.1	6.2	11	38	364	158	195	22	3.2	1.9	150	12
19	1.6	7.3	12	34	501	181	169	21	4.1	1.7	170	13
20	1.7	8.2	12	31	519	205	148	20	3.3	2.5	183	10
21	1.7	8.6	12	29	436	226	151	21	3.5	5.5	178	8.8
22	1.6	6.8	11	27	351	280	172	18	3.8	5.3	143	8.0
23	1.6	6.5	14	26	294	453	159	16	4.1	3.8	121	7.6
24	1.4	6.1	13	26	276	558	154	14	5.4	3.0	165	7.2
25	1.7	7.2	18	25	270	610	141	13	8.7	2.8	207	6.8
26	2.7	6.4	21	24	263	616	127	11	6.0	3.2	243	6.6
27	2.9	7.3	22	23	253	578	120	9.9	4.3	2.8	227	6.5
28	2.4	6.8	24	27	245	540	126	8.3	3.2	3.5	218	6.5
29	2.8	6.7	31	30	---	499	131	7.2	3.0	8.9	225	5.8
30	3.1	6.7	42	36	---	478	126	5.8	3.0	8.0	177	5.7
31	3.2	---	57	37	---	482	---	5.0	---	10	154	---
TOTAL	80.8	146.2	463.9	1164	5512	10040	16852	1049.2	131.6	151.1	4560.5	900.5
MEAN	2.61	4.87	15.0	37.5	197	324	562	33.8	4.39	4.87	147	30.0
MAX	5.5	8.6	57	62	519	616	1670	108	8.7	10	444	142
MIN	1.1	2.1	7.1	23	36	155	120	5.0	2.4	1.7	8.5	5.7
CFSM	.005	.009	.03	.07	.36	.58	1.01	.06	.008	.009	.27	.05
IN.	.01	.01	.03	.08	.37	.67	1.13	.07	.01	.01	.31	.06

CAL YR 1980 TOTAL 140008.2 MEAN 383 MAX 5750 MIN 1.1 CFSM .69 IN 9.38
WTR YR 1981 TOTAL 41051.8 MEAN 112 MAX 1670 MIN 1.1 CFSM .20 IN 2.75

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 23...	1100	1.5	6.6	7.1	17.0	18.5	4.0
NOV 19...	1300	7.3	--	6.8	13.0	12.5	3.7
DEC 17...	1000	10	--	6.1	10.0	8.5	8.6
JAN 21...	1350	28	--	5.7	13.0	6.0	9.6
FEB 18...	1400	385	--	5.2	16.5	13.0	8.2
MAR 18...	1335	150	--	5.3	24.0	13.5	8.2
APR 22...	1405	173	--	5.6	20.0	18.0	6.6
MAY 20...	1400	20	--	5.9	26.5	23.0	2.1
JUN 17...	1300	2.4	--	6.6	34.5	30.0	2.9
JUL 22...	1305	5.2	6.9	7.1	35.5	27.5	4.7
AUG 19...	1310	171	5.4	5.4	25.5	21.0	5.1
SEP 23...	1230	7.8	6.2	6.1	28.0	21.0	6.0

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 23...	121	30	4	4.0	<30	34	2	<.02	.640	1.10	6.5
NOV 19...	108	50	2	2.6	210	28	<1	.06	1.10	.880	7.0
DEC 17...	125	40	2	1.4	90	5.0	5	<.02	.120	.180	12
JAN 21...	91	40	4	.5	70	3.0	6	<.02	.050	.070	12
FEB 18...	78	60	8	1.1	2300	1.0	10	.06	.040	.070	16
MAR 18...	61	80	5	1.3	90	4.0	2	<.02	<.020	.040	16
APR 22...	56	225	4	1.7	2300	4.0	<1	.18	.480	.200	30
MAY 20...	77	180	3	2.1	--	5.0	2	.16	.200	.170	24
JUN 17...	91	90	5	2.1	430	20	<1	.06	.940	.580	12
JUL 22...	88	60	4	3.7	430	20	7	.05	.430	.700	11
AUG 19...	63	160	5	3.2	9300	3.0	5	.16	.400	.180	28
SEP 23...	72	200	4	2.1	2300	9.0	<1	.09	.390	.280	20

02203519 CANOOCHEE RIVER NEAR RICHMOND HILL, GA.

LOCATION.--Lat 31°58'59", long 81°23'07", Bryan County, Hydrologic Unit 03060203, at bridge on State Highway 67, 5.3 mi (8.5 km) west of Richmond Hill, and 8.5 mi (13.7 km) upstream from Ogeechee River.

PERIOD OF RECORD.--July 1978 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 22...	1630	7.0	7.2	20.0	21.0	8.0
NOV 19...	0830	--	7.0	6.5	14.0	8.0
DEC 16...	1500	--	7.2	10.0	10.5	8.6
JAN 21...	1020	6.9	7.1	9.0	7.0	10.8
FEB 18...	1000	--	6.2	15.0	13.0	6.4
MAR 18...	0945	--	6.2	17.0	13.5	7.2
APR 22...	0830	--	6.0	18.0	19.0	5.5
MAY 20...	1000	6.3	6.6	26.5	24.0	5.9
JUN 17...	0800	--	6.8	31.0	29.0	5.8
JUL 22...	0845	6.8	6.9	30.0	27.0	5.5
AUG 19...	0835	5.0	5.0	22.0	22.5	4.8
SEP 23...	0830	6.2	6.3	25.0	19.5	6.4

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 22...	85	50	3	1.2	430	21	<1	.60	.050	.390	7.5
NOV 19...	90	40	2	.9	220	21	<1	.80	.100	.400	5.0
DEC 16...	95	40	2	1.1	<30	23	<1	.88	.140	.370	5.0
JAN 21...	112	40	5	1.9	40	15	8	.66	.510	.310	10
FEB 18...	96	60	7	1.8	<30	5.0	8	.34	.180	.160	15
MAR 18...	71	90	5	1.9	<30	5.0	3	.13	.030	.140	15
APR 22...	61	180	3	1.0	90	5.0	1	.18	.480	.180	24
MAY 20...	70	120	3	1.4	--	10	5	.44	.020	.250	17
JUN 17...	83	60	3	.5	90	14	1	.61	.030	.360	9.0
JUL 22...	103	70	3	1.0	<30	17	5	.24	.080	.450	12
AUG 19...	67	200	5	1.8	230	2.0	1	.10	.090	.150	27
SEP 23...	65	150	5	.5	40	7.0	<1	.25	.140	.220	18

02203578 NORTH NEWPORT RIVER AT HALFMOON LANDING, GA.

LOCATION.--Lat 31°40'39", long 81°18'05", Liberty County, Hydrologic Unit 03060204, at Halfmoon Landing, at mile 9.9 (15.9 km).
DRAINAGE AREA.--157 mi2 (407 km2).
PERIOD OF RECORD.--September 1966 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1970 to September 1976.
pH: July 1970 to September 1976.
WATER TEMPERATURES: July 1970 to September 1976.
DISSOLVED OXYGEN: July 1970 to September 1976.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA. WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 23...	0730	7.4	7.7	18.5	22.5	4.2
NOV 18...	1645	7.4	7.7	17.5	17.5	6.0
DEC 16...	1600	7.3	7.8	10.0	13.0	6.6
JAN 21...	0920	7.8	--	11.0	6.0	8.4
FEB 18...	0830	7.9	7.8	15.0	11.0	7.8
MAR 18...	0820	7.7	7.8	13.0	13.0	7.2
APR 22...	0730	--	7.5	15.0	21.5	4.6
MAY 20...	0845	7.4	7.6	24.5	25.0	5.6
JUN 17...	0630	7.1	7.5	26.0	30.0	4.0
JUL 22...	0730	7.3	7.5	26.5	30.0	2.9
AUG 19...	0700	7.4	7.5	22.5	28.0	4.4
SEP 23...	0730	7.5	7.5	21.5	25.0	4.2

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	CHLORIDE, DISSOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 23...	43000	20	21	1.6	230	120	17600	108	<.02	.110	.180	8.5
NOV 18...	36500	20	12	1.1	<30	119	20000	39	<.02	.040	.140	8.5
DEC 16...	37700	10	5	.7	40	115	17200	15	<.02	<.020	.100	5.0
JAN 21...	40200	4	10	.9	<30	--	--	26	<.02	.020	.120	5.0
FEB 18...	39100	5	13	.5	<30	109	17400	37	<.02	<.020	.070	3.0
MAR 18...	37900	10	13	.9	<30	106	17200	43	<.02	.040	.070	4.5
APR 22...	29400	40	14	.8	<30	90	13400	67	.17	.210	.100	11
MAY 20...	36400	30	14	1.0	--	103	15600	49	.04	.020	.090	12
JUN 17...	35600	35	22	1.1	<30	104	16000	56	.03	.080	.150	10
JUL 22...	37200	30	10	.9	<30	112	17600	44	.15	.100	.150	11
AUG 19...	34300	30	20	1.5	<30	110	16500	58	.07	.160	.230	8.5
SEP 23...	38800	30	12	.7	<30	119	--	37	.06	.640	.140	7.5

02203800 SOUTH RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°40'46", long 84°18'30", DeKalb County, Hydrologic Unit 03070103, at bridge on Bouldercrest Road at Atlanta, 0.4 mi (0.6 km) southeast of Interstate Highway 285, and 1.1 mi (1.8 km) upstream from Sugar Creek.
DRAINAGE AREA.--41.5 mi^2 (107 km^2).
PERIOD OF RECORD.--July 1975 to current year.
REMARKS.--Natural flow of stream includes some flow diverted from the Chattahoochee River for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 07...	1315	60	6.9	7.0	22.0	18.5	5.7
NOV 04...	1430	75	6.8	7.0	22.0	18.5	6.1
DEC 03...	1530	55	6.8	7.1	14.0	14.0	7.0
JAN 07...	1400	65	6.6	7.1	7.0	9.0	8.2
FEB 04...	0945	64	7.2	7.1	3.0	6.0	9.3
MAR 04...	1345	70	7.3	7.0	16.0	14.0	7.6
APR 07...	0945	68	7.1	7.1	14.5	14.5	6.8
MAY 06...	0900	56	6.9	7.2	22.0	20.0	2.9
JUN 04...	0915	60	--	7.0	27.0	24.0	4.0
JUL 08...	0700	55	7.0	7.0	26.5	24.5	3.8
AUG 04...	1000	56	6.8	6.9	30.0	23.5	4.0
SEP 03...	1215	64	6.9	--	29.0	25.0	3.2

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 07...	338	13	12	330	67	12	224	1.7	3.95	2.75	19
NOV 04...	218	40	21	23000	37	35	194	1.2	3.16	1.80	19
DEC 03...	327	16	18	40	56	17	228	2.6	5.28	2.68	25
JAN 07...	259	20	18	40	41	13	208	1.6	3.75	2.15	22
FEB 04...	300	25	>9.0	90	69	23	228	1.1	13.6	2.70	25
MAR 04...	314	19	20	<30	61	28	204	1.8	5.00	3.38	24
APR 07...	284	19	28	40	62	32	213	1.1	4.80	3.30	24
MAY 06...	359	15	20	4900	77	14	240	1.1	6.00	4.10	26
JUN 04...	373	14	8.8	2300	66	11	224	2.2	4.70	3.60	15
JUL 08...	280	19	16	93000	61	21	212	1.4	2.98	3.12	23
AUG 04...	314	11	>13	4300	57	22	220	1.4	3.30	3.60	19
SEP 03...	317	14	6.8	4300	38	6	216	1.9	5.78	3.48	25

02203900 SOUTH RIVER AT FLAKES MILL ROAD, NEAR ATLANTA, GA.

LOCATION.--Lat 33°39'58", long 84°13'29", DeKalb County, Hydrologic Unit 03070103, at bridge on Flakes Mill Road, 1.6 mi (2.6 km) upstream from Snapfinger Creek, and 15 mi (24 km) southeast of Atlanta.

DRAINAGE AREA.--99 mi^2 (256 km^2).

PERIOD OF RECORD.--Water years 1951-79 (annual maximum), August 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 717.75 ft (218.77 m), National Geodetic Vertical Datum of 1929. July 14, 1950 to Aug. 23, 1979, crest-stage gage at same site and datum.

REMARKS.--Records good. Low flow affected by operation of wastewater treatment plants upstream of gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft^3/s (354 m^3/s) Feb. 25, 1961, gage height, 21.3 ft (6.49 m); minimum daily discharge, 63 ft^3/s (1.78 m^3/s) Aug. 23, Sept. 27, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft^3/s (70.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	0730	*4940	140	11.49	3.500

Minimum daily discharge, 63 ft^3/s (1.78 m^3/s) Aug. 23, Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196	90	89	85	115	111	700	85	364	73	109	261
2	113	84	91	84	583	137	235	80	139	207	94	155
3	96	83	89	85	135	106	160	80	115	216	73	79
4	86	256	87	84	112	197	136	80	93	138	74	829
5	85	99	87	83	103	378	449	81	89	188	72	576
6	84	90	86	86	99	131	174	83	164	271	75	109
7	84	87	85	140	96	113	136	87	592	248	219	95
8	83	84	85	91	91	108	126	81	500	92	120	107
9	81	82	100	88	88	104	119	79	127	81	88	81
10	80	84	810	88	900	104	115	92	103	81	73	73
11	80	84	171	87	3170	103	111	461	105	76	82	73
12	74	85	121	87	320	101	108	100	104	139	77	68
13	75	84	107	86	184	100	106	88	259	90	71	70
14	79	85	97	86	147	99	106	83	112	87	71	100
15	79	354	94	86	132	96	102	294	88	84	72	326
16	79	138	97	86	123	128	99	90	88	88	235	271
17	79	96	93	86	214	114	97	83	88	84	279	95
18	79	94	91	85	1260	300	101	81	86	81	83	78
19	81	89	91	86	614	191	97	284	84	85	74	71
20	77	87	89	100	243	120	265	100	80	82	69	69
21	77	87	86	155	169	112	134	87	80	84	77	70
22	78	85	87	96	145	163	98	82	77	77	68	70
23	76	86	91	92	184	150	98	78	80	84	63	68
24	75	182	96	91	126	118	109	74	78	79	64	67
25	152	96	87	87	118	105	87	73	91	68	69	67
26	82	91	82	85	114	100	85	170	84	192	95	64
27	79	224	84	91	110	98	86	590	78	241	71	63
28	328	107	85	167	107	96	86	123	72	79	65	66
29	102	93	87	91	---	96	137	94	71	71	64	70
30	249	89	89	87	---	1120	103	89	73	100	75	70
31	112	---	88	84	---	303	---	117	---	97	74	---
TOTAL	3180	3375	3622	2915	9802	5302	4565	4069	4164	3663	2895	4261
MEAN	103	113	117	94.0	350	171	152	131	139	118	93.4	142
MAX	328	354	810	167	3170	1120	700	590	592	271	279	829
MIN	74	82	82	83	88	96	85	73	71	68	63	63
CFSM	1.04	1.14	1.18	.95	3.54	1.73	1.54	1.32	1.40	1.19	.94	1.43
IN.	1.19	1.27	1.36	1.10	3.68	1.99	1.72	1.53	.56	1.38	1.09	1.60

CAL YR 1980 TOTAL 84096 MEAN 230 MAX 4840 MIN 69 CFSM 2.32 IN 31.60
WTR YR 1981 TOTAL 51813 MEAN 142 MAX 3170 MIN 63 CFSM 1.43 IN 19.47

02203965 SOUTH RIVER NEAR LITHONIA, GA.

LOCATION.--Lat 33°39'14", long 84°11'12", DeKalb County, Hydrologic Unit 03070103, at bridge on State Highway 155, 2.0 mi (3.2 km) south of State Highway 212, 2.4 mi (3.8 km) downstream from Snapfinger Creek, and 6.2 mi (10 km) southwest of Lithonia.
PERIOD OF RECORD.--July 1975 to current year.
REMARKS.--Natural flow of stream includes some flow diverted from the Chattahoochee River for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
07...	1215	6.9	7.0	23.0	16.0	7.2
NOV						
04...	1345	6.9	7.0	24.0	16.5	7.2
DEC						
03...	1430	6.7	7.2	16.5	11.0	7.8
JAN						
07...	0845	6.8	7.2	5.0	7.0	8.4
FEB						
04...	1045	7.1	7.1	4.5	4.0	9.4
MAR						
04...	1240	6.9	7.1	14.0	12.0	8.4
APR						
07...	1045	7.2	7.1	21.5	14.0	6.8
MAY						
06...	0945	--	7.4	22.0	20.0	3.5
JUN						
04...	1045	7.2	7.1	31.0	24.0	3.9
JUL						
08...	0750	--	7.0	29.5	25.0	4.1
AUG						
04...	1045	6.9	7.0	31.5	24.0	4.1
SEP						
03...	1300	7.2	7.0	36.0	24.5	3.8

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
07...	223	12	11	90	40	18	156	2.7	2.70	2.00	7.5
NOV											
04...	130	100	4.4	43000	28	150	258	.90	1.05	1.10	4.0
DEC											
03...	234	9	9.6	1500	48	7	156	1.8	4.02	1.92	14
JAN											
07...	214	15	18	290	46	15	152	1.8	3.80	2.38	16
FEB											
04...	196	27	20	40	43	26	168	1.3	3.40	1.50	18
MAR											
04...	220	11	8.0	<30	49	11	128	1.0	3.30	2.00	11
APR											
07...	200	13	10	40	45	25	144	.95	4.32	1.50	10
MAY											
06...	258	9	10	430	64	7	164	.92	4.96	2.80	12
JUN											
04...	256	14	7.8	930	55	8	152	1.3	4.40	1.87	11
JUL											
08...	194	20	10	2300	39	16	144	1.4	2.58	1.64	12
AUG											
04...	246	8	6.3	9300	58	10	164	1.2	5.35	2.45	9.5
SEP											
03...	242	8	5.7	4300	55	<1	--	1.1	3.00	2.08	12

02204285 PATES CREEK NEAR FLIPPEN, GA.

LOCATION.--Lat 33°29'34", long 84°14'44", Henry County, Hydrologic Unit 03070103, on left upstream headwall of culvert on county road, 3.6 mi (5.8 km) west of Flippen, and 3.8 mi (6.1 km) upstream from Little Cotton Indian Creek.
DRAINAGE AREA.--11.9 mi^2 (30.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1977 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 722 ft (220 m), from topographic map.
REMARKS.--Records fair except those for periods of doubtful gage-height record, Oct. 2-24, Nov. 9-19, Apr. 25 to May 9, and May 14 to June 17, which are poor.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 816 ft^3/s (23.1 m^3/s) Nov. 5, 1977, gage height, 9.40 ft (2.865 m); minimum daily discharge, 1.1 ft^3/s (0.031 m^3/s) Sept. 9-11, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft^3/s (9.91 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	(m^3/s)	Gage height (ft)	(m)
Feb. 11	0130	*589	16.7	6.99	2.131

Minimum daily discharge, 1.1 ft^3/s (0.031 m^3/s) Sept. 9-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	5.6	6.2	6.2	5.3	8.8	65	5.5	5.0	2.0	10	6.5
2	5.8	5.0	6.2	6.1	13	9.7	37	5.3	6.0	2.6	8.6	3.9
3	5.0	4.9	6.2	6.0	7.7	7.9	24	5.1	5.8	2.3	7.7	1.5
4	4.5	5.5	6.2	5.9	6.1	9.5	17	4.9	5.0	2.0	7.1	1.3
5	4.0	7.0	6.2	5.7	5.4	17	18	4.8	8.8	1.9	7.3	1.2
6	3.8	8.5	6.2	5.8	5.2	9.3	14	4.8	11	2.1	7.2	1.3
7	3.7	10	6.2	6.5	5.2	8.1	12	5.6	5.1	2.0	5.2	1.4
8	3.7	10	6.2	6.3	5.2	7.4	10	5.2	4.4	1.7	2.4	1.2
9	3.6	9.0	7.6	6.1	5.2	8.5	9.3	6.6	4.0	1.7	2.4	1.1
10	3.6	8.0	28	5.7	95	7.4	8.6	8.4	3.6	1.7	2.4	1.1
11	3.5	7.0	14	5.7	250	7.0	8.0	18	3.3	2.1	2.7	1.1
12	3.5	6.5	9.1	5.7	47	6.9	7.9	8.7	3.0	2.0	2.4	1.2
13	3.4	6.4	7.4	5.7	23	7.1	7.9	6.9	2.8	1.9	2.1	1.4
14	3.4	8.0	6.9	5.7	14	6.3	7.6	6.4	2.6	1.9	2.7	3.2
15	3.3	12	7.1	5.7	11	6.2	7.5	6.1	2.5	1.9	3.0	5.1
16	3.2	10	7.1	5.7	9.5	6.2	7.5	5.8	2.5	1.9	3.8	5.7
17	3.2	8.7	6.6	5.7	9.9	6.2	7.4	6.3	2.5	1.8	4.4	5.2
18	3.2	5.3	6.2	5.4	58	17	7.1	6.2	2.5	2.0	3.4	4.7
19	3.9	4.4	6.2	5.5	43	18	7.1	5.4	2.5	2.1	2.8	4.7
20	4.8	4.4	6.1	5.5	27	12	9.4	6.0	2.5	2.6	2.8	4.6
21	4.5	4.3	5.7	5.9	17	10	15	6.0	2.5	3.0	2.8	4.6
22	3.9	3.9	5.7	5.7	15	14	9.4	5.5	2.4	9.4	2.8	4.5
23	3.6	4.0	6.0	5.7	15	12	8.0	4.6	2.3	2.6	2.6	4.4
24	3.4	5.2	6.3	5.7	11	11	7.6	4.2	17	3.9	2.7	4.4
25	4.0	4.4	6.2	5.5	8.3	10	7.1	4.2	21	5.6	2.6	4.5
26	4.0	4.9	6.2	5.2	8.0	8.5	6.9	4.7	14	6.1	2.6	4.5
27	5.0	8.8	6.1	5.4	7.8	8.0	6.6	8.0	7.1	6.3	4.2	4.4
28	11	7.8	5.7	6.2	9.8	8.0	6.3	6.0	2.1	6.5	6.4	4.4
29	9.4	6.8	5.7	5.5	---	8.0	6.0	5.4	2.0	6.7	5.9	4.4
30	8.7	6.6	5.7	5.2	---	39	5.7	4.9	2.1	7.3	5.9	4.6
31	6.6	---	5.7	5.2	---	28	---	4.6	---	7.7	5.8	---
TOTAL	147.2	202.9	226.9	177.8	737.6	343.0	370.9	190.1	157.9	105.3	134.7	102.1
MEAN	4.75	6.76	7.32	5.74	26.3	11.1	12.4	6.13	5.26	3.40	4.35	3.40
MAX	11	12	28	6.5	250	39	65	18	21	9.4	10	6.5
MIN	3.2	3.9	5.7	5.2	5.2	6.2	5.7	4.2	2.0	1.7	2.1	1.1
CFSM	.40	.57	.62	.48	2.21	.93	1.04	.52	.44	.29	.37	.29
IN.	.46	.63	.71	.56	2.31	1.07	1.16	.59	.49	.33	.42	.32

CAL YR 1980 TOTAL 5620.9 MEAN 15.4 MAX 335 MIN 1.7 CFSM 1.29 IN 17.57
WTR YR 1981 TOTAL 2896.4 MEAN 7.94 MAX 250 MIN 1.1 CFSM .67 IN 9.05

02204285 PATES CREEK NEAR FLIPPEN, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
07...	1710	3.8	15.5	11	.11
NOV					
19...	1445	4.3	9.0	9	.10
JAN					
09...	1455	6.0	4.5	5	.08
FEB					
20...	1810	21	13.0	73	4.1
MAR					
25...	1450	10	14.0	19	.51
JUN					
17...	1120	2.5	23.5	22	.15
SEP					
10...	1030	1.2	18.0	22	.07

02204500 SOUTH RIVER NEAR MCDONOUGH, GA.

LOCATION.--Lat 33°29'48", long 84°00'53", Henry-Newton County line, Hydrologic Unit 03070103, on left bank 20 ft (6 m) downstream from Butler Bridge, 0.2 mi (0.3 km) upstream from Beech Creek, 2 mi (3.2 km) downstream from Big Walnut Creek, 4.5 mi (7.2 km) downstream from Cotton River, and 9 mi (14.5 km) northeast of McDonough.
DRAINAGE AREA.--456 mi^2 (1,180 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to September 1960. Water years 1961-65 (annual maximum only). October 1975 to current year.
REVISED RECORDS.--WSP 1624: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 564.99 ft (172.209 m) National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers' bench mark).
REMARKS.--Records good except those for periods of no gage-height record, Mar. 25 to May 14 and May 22 to June 17, which are poor.
AVERAGE DISCHARGE.--27 years, 576 ft^3/s (16.3 m^3/s), 17.15 in/yr (436 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,500 ft^3/s (977 m^3/s) Jan. 7, 1946, gage height, 24.7 ft (7.53 m), from rating curve extended above 25,000 ft^3/s (708 m^3/s); minimum daily, 54 ft^3/s (1.53 m^3/s) Oct. 12, 1954.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 12	0030	*10200	289	18.11	5.520

Minimum daily discharge, 107 ft^3/s (3.03 m^3/s) Sept. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1220	290	270	285	258	412	1400	260	260	128	214	128
2	493	257	275	271	753	441	1900	250	680	135	271	272
3	337	242	292	265	708	430	1100	245	550	271	198	186
4	279	279	283	260	401	384	700	240	350	311	158	268
5	255	413	279	253	356	896	500	240	280	219	146	810
6	244	260	278	251	324	655	1100	250	400	376	140	398
7	237	240	277	275	312	466	700	290	700	540	185	213
8	234	234	277	330	306	413	550	270	1000	322	365	282
9	230	233	285	258	293	383	460	250	600	211	217	244
10	225	228	1150	261	464	367	400	250	350	184	215	171
11	217	224	1060	258	7260	352	370	680	250	177	179	131
12	211	221	522	256	6640	340	350	750	210	169	396	125
13	199	219	430	254	1300	328	340	420	500	209	249	122
14	191	218	388	252	910	324	330	300	350	173	175	119
15	193	228	365	250	751	314	320	340	250	159	155	139
16	197	626	358	252	658	316	310	233	220	152	165	368
17	203	326	355	252	601	344	300	360	190	151	450	278
18	198	280	337	246	1470	364	290	250	178	146	314	150
19	203	273	325	244	3460	895	290	210	169	141	201	129
20	209	259	322	246	1420	523	290	220	163	141	166	123
21	196	247	310	332	876	407	600	590	156	137	156	120
22	190	244	305	355	697	395	400	260	150	134	165	119
23	193	251	305	284	683	489	350	230	146	126	148	117
24	188	291	318	265	600	435	300	210	142	124	138	114
25	210	387	322	259	509	380	370	200	143	123	135	113
26	297	287	305	254	470	350	330	190	172	119	166	111
27	221	322	293	248	444	330	310	550	148	368	152	109
28	293	497	297	320	419	310	290	1050	140	228	133	107
29	486	323	320	340	---	300	280	600	132	146	124	107
30	305	284	325	271	---	1200	270	400	128	144	122	108
31	458	---	310	260	---	3000	---	300	---	168	126	---
TOTAL	8812	8683	11538	8407	33343	16543	15500	10888	9107	6132	6124	5781
MEAN	284	289	372	271	1191	534	517	351	304	198	198	193
MAX	1220	626	1150	355	7260	3000	1900	1050	1000	540	450	810
MIN	188	218	270	244	258	300	270	190	128	119	122	107
CFSM	.62	.63	.82	.59	2.61	1.17	1.13	.77	.67	.43	.43	.42
IN.	.72	.71	.94	.69	2.72	1.35	1.26	.89	.74	.50	.50	.47

CAL YR 1980 TOTAL 268151 MEAN 733 MAX 9430 MIN 156 CFSM 1.61 IN 21.88
WTR YR 1981 TOTAL 140858 MEAN 386 MAX 7260 MIN 107 CFSM .85 IN 11.49

02204500 SOUTH RIVER NEAR MCDONOUGH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1957 to May 1958, January 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
08...	1210	231	15.5	36	22
NOV					
18...	1400	277	12.0	15	11
JAN					
08...	1245	340	4.0	16	15
FEB					
09...	1345	295	--	12	9.6
MAR					
25...	1600	345	13.0	8	7.5
JUN					
17...	0930	105	26.0	18	9.0
SEP					
09...	1515	231	23.0	33	21

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.

LOCATION.--Lat 33°29'04", long 83°57'29", Newton-Henry County line, Hydrologic Unit 03070103, at bridge on State Highway 81, 0.2 mi (0.3 km) south of State Highway 212, and 0.5 mi (0.8 km) upstream from Snapping Shoals Creek.

DRAINAGE AREA.--465 mi^2 (1,200 km^2).

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Natural flow of stream includes some flow diverted from the Chattahoochee River for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
07...	1000	250	7.3	7.0	14.0	14.0	7.3
NOV							
04...	1200	260	6.9	7.1	23.0	15.0	7.2
DEC							
03...	1115	320	6.6	6.9	9.0	8.5	7.0
JAN							
07...	1000	290	6.7	7.2	4.5	4.0	9.6
FEB							
04...	1200	400	6.8	6.7	9.0	3.0	9.9
MAR							
04...	0755	330	7.1	6.8	7.0	12.0	8.1
APR							
07...	1200	500	6.5	6.9	24.0	15.0	7.2
MAY							
06...	1015	150	--	7.1	24.0	19.0	4.4
JUN							
04...	1145	170	6.9	6.9	32.0	24.0	4.1
JUL							
08...	0905	450	6.8	6.8	33.0	25.5	4.1
AUG							
04...	1230	163	--	7.3	35.0	24.0	4.1
SEP							
03...	1400	160	7.1	6.8	32.0	24.5	4.5

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT							
07...	151	8	10	1.6	430	30	7
NOV							
04...	147	6	12	2.4	150	26	2
DEC							
03...	129	6	30	1.6	150	22	5
JAN							
07...	139	8	12	5.2	390	28	1
FEB							
04...	88	24	12	3.6	430	16	24
MAR							
04...	119	9	14	2.6	70	25	1
APR							
07...	84	16	11	2.4	2300	17	20
MAY							
06...	153	7	12	2.8	930	26	8
JUN							
04...	140	15	<5	1.2	230	24	9
JUL							
08...	92	29	17	3.2	2300	20	14
AUG							
04...	147	8	9	1.0	<30	29	10
SEP							
03...	123	13	10	1.9	90	21	9

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT						
07...	112	2.2	.190	.66	.900	3.5
NOV						
04...	110	1.4	.120	.46	.920	4.0
DEC						
03...	88	2.1	.640	1.00	.840	2.0
JAN						
07...	56	2.0	1.87	1.80	1.03	4.0
FEB						
04...	92	1.1	.580	1.10	.400	4.5
MAR						
04...	60	1.2	.790	1.30	.620	3.3
APR						
07...	80	.85	.100	.60	.360	2.5
MAY						
06...	112	2.0	.540	.90	1.13	4.0
JUN						
04...	96	2.0	.220	.50	.750	2.0
JUL						
08...	92	1.2	.200	.50	.570	6.0
AUG						
04...	112	2.0	.090	.80	.990	3.5
SEP						
03...	92	1.7	.260	.80	.780	4.0

02205000 WILDCAT CREEK NEAR LAWRENCEVILLE, GA.

LOCATION.--Lat 34°00'08", long 84°00'18", Gwinnett County, Hydrologic Unit 03070103, on left bank 75 ft (23 m) upstream from highway bridge, 0.7 mi (1.1 km) upstream from mouth, 1.1 mi (1.8 km) east of State Highway 20, and 3.2 mi (5.1 km) north of Lawrenceville.
DRAINAGE AREA.--1.59 mi^2 (4.12 km^2).
PERIOD OF RECORD.--October 1953 to current year.
GAGE.--Water-stage recorder. Datum of gage is 967.55 ft (294.909 m), National Geodetic Vertical Datum of 1929.
REMARKS.--Records fair.
AVERAGE DISCHARGE.--28 years, 1.70 ft^3/s (0.048 m^3/s), 14.52 in/yr (369 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 806 ft^3/s (22.8 m^3/s) May 6, 1956, gage height, 8.20 ft (2.499 m), from rating curve extended above 45 ft^3/s (1.27 m^3/s), on basis of slope-area measurement at gage height, 4.95 ft (1.509 m) and slope-area estimate at gage height, 8.20 ft (2.499 m); maximum gage height, 9.80 ft (2.987 m) May 23, 1980; no flow for part of each day Sept. 1-6, Oct. 7, 1954, no flow Sept. 24-30, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 60 ft^3/s (1.70 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
July 12	0215	*67	1.90	3.74	1.140

Minimum discharge, no flow Sept. 24-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	.74	.57	.57	.61	1.3	2.6	.51	.58	.14	.16	.09
2	.62	.66	.57	.57	2.2	1.4	1.6	.45	.65	.25	.18	.09
3	.49	.62	.55	.57	.83	1.1	1.3	.49	.57	.30	.15	.07
4	.43	.79	.52	.57	.71	1.6	1.1	.43	.42	.30	.11	.10
5	.44	.65	.53	.54	.63	1.9	2.2	.44	.40	.40	.08	.10
6	.41	.62	.52	.58	.62	1.4	1.4	.46	.43	.57	.98	.07
7	.39	.60	.52	.75	.62	1.2	1.3	.54	.62	.46	.39	.05
8	.40	.58	.52	.61	.61	1.1	1.1	.48	.50	.35	.23	.04
9	.39	.62	.53	.57	.57	1.0	.99	.42	.39	.27	.19	.03
10	.38	.58	.88	.57	9.7	.98	.92	3.2	.32	.20	.19	.02
11	.37	.53	.69	.55	11	.90	.85	2.0	.27	.22	.18	.01
12	.36	.57	.62	.54	2.7	.85	.85	1.0	.31	3.6	.16	.01
13	.36	.57	.62	.52	2.1	.84	.81	.75	.30	.60	.14	.01
14	.37	.61	.58	.51	1.8	.82	.77	.60	.25	.47	.13	.01
15	.37	1.2	.57	.50	1.6	.80	.70	.65	.21	.30	.12	.04
16	.38	.86	.66	.48	1.4	.80	.63	.57	.20	.23	.12	.04
17	.38	.77	.61	.48	1.6	.73	.64	.60	.20	.19	.12	.02
18	.59	.76	.57	.46	4.7	1.4	.69	.52	.21	.16	.13	.02
19	.72	.70	.57	.46	3.8	.99	.70	.80	.21	.15	.13	.02
20	.50	.62	.57	.63	2.4	.85	.71	.60	.17	.14	.12	.02
21	.45	.57	.57	.82	1.9	.80	.83	.57	.16	.12	.15	.02
22	.43	.52	.57	.60	1.8	.84	.72	.50	.14	.10	.12	.01
23	.42	.56	.57	.56	1.8	.85	1.5	.42	.13	.09	.11	.01
24	.43	.86	.60	.52	1.7	.78	1.3	.39	.12	.08	.10	.00
25	.70	.62	.57	.52	1.6	.67	.84	.35	.10	.07	.09	.00
26	.48	.57	.57	.51	1.5	.67	.69	.40	.09	.07	.08	.00
27	.44	1.3	.57	.51	1.4	.60	.58	1.1	.09	.07	.07	.00
28	1.6	.74	.57	.51	1.3	.57	.53	.52	.08	.09	.06	.00
29	.81	.64	.57	.47	---	.52	.72	.42	.08	.07	.05	.00
30	1.4	.61	.57	.47	---	5.4	.65	.35	.08	.08	.08	.00
31	.91	---	.57	.47	---	1.5	---	.47	---	.16	.09	---
TOTAL	17.38	20.64	18.07	16.99	63.20	35.16	30.22	21.00	8.28	10.30	5.01	.90
MEAN	.56	.69	.58	.55	2.26	1.13	1.01	.68	.28	.33	.16	.030
MAX	1.6	1.3	.88	.82	11	5.4	2.6	3.2	.65	3.6	.98	.10
MIN	.36	.52	.52	.46	.57	.52	.53	.35	.08	.07	.05	.00
CFSM	.35	.43	.37	.35	1.42	.71	.64	.43	.18	.21	.10	.02
IN.	.41	.48	.42	.40	1.48	.82	.71	.49	.19	.24	.12	.02

CAL YR 1980 TOTAL 903.40 MEAN 2.47 MAX 150 MIN .07 CFSM 1.55 IN 21.12
WTR YR 1981 TOTAL 247.15 MEAN .68 MAX 11 MIN .00 CFSM .43 IN 5.78

02206500 YELLOW RIVER NEAR SNELLVILLE, GA.

LOCATION.--Lat 33°51'11", long 84°04'45", Gwinnett County, Hydrologic Unit 03070103, at county highway bridge, 3.2 mi (5.1 km) west of Snellville, 4 mi (6.4 km) downstream from Sweetwater Creek, 6.5 mi (10.5 km) northeast of town of Stone Mountain, and 7.5 mi (12.1 km) upstream from Stone Mountain Creek.

DRAINAGE AREA.--134 mi2 (347 km2).

PERIOD OF RECORD.--November 1969 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for the water years 1943-71 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV 04...	0945	103	7.1	7.3	18.5	14.0	9.4
FEB 04...	1615	108	6.8	7.2	8.0	2.5	12.6
MAR 04...	1125	108	7.5	7.0	14.0	10.0	11.0
MAY 06...	1515	107	7.0	7.5	24.0	18.0	7.0
AUG 04...	0830	28	6.8	7.3	28.5	22.0	7.2

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 04...	96	18	1.3	2300	30	.85	.040	.100	3.0
FEB 04...	80	17	1.6	40	21	.58	.230	.080	1.3
MAR 04...	92	11	.4	430	23	.79	.090	.090	1.5
MAY 06...	117	20	1.3	430	28	1.0	.100	.240	2.0
AUG 04...	144	13	.4	150	37	1.4	.020	.110	2.0

02207300 YELLOW RIVER AT MILSTEAD, GA.

LOCATION.—Lat 33°41'23", long 83°59'49", Rockdale County, Hydrologic Unit 03070103, at bridge on State Highway 20 at Milstead, 2.2 mi (3.5 km) northeast of Conyers.

DRAINAGE AREA.—210 mi^2 (540 km^2), approximately.

PERIOD OF RECORD.—July 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 07...	0915	119	7.2	7.0	11.0	14.0	9.2
NOV 04...	1045	273	6.9	7.1	18.0	13.5	8.9
DEC 03...	0945	159	--	7.1	7.5	7.0	8.9
JAN 07...	1300	138	6.9	7.3	6.5	4.0	10.6
FEB 04...	1500	215	6.7	7.1	10.5	2.5	11.7
MAR 04...	1015	233	--	7.0	8.5	11.0	10.4
APR 07...	1530	381	6.8	7.1	25.0	15.5	8.6
MAY 06...	1400	108	--	7.3	22.5	19.0	7.3
JUN 04...	1515	159	7.2	7.1	35.5	25.0	6.6
JUL 08...	1300	114	7.1	7.4	33.5	26.0	6.2
AUG 04...	1140	110	7.0	7.1	34.0	25.0	6.4
SEP 03...	1630	39	7.3	7.2	31.0	24.0	5.9

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 07...	84	9	.6	4300	430	24	.59	.030	.040	2.0
NOV 04...	77	10	1.3	7500	430	27	.30	.240	.040	3.5
DEC 03...	78	7	1.0	390	90	23	.58	.120	.040	1.0
JAN 07...	78	19	2.0	1500	30	24	.72	.020	.080	2.0
FEB 04...	66	27	1.4	930	40	17	.52	.080	.090	1.7
MAR 04...	75	14	.5	1600	60	20	.50	.020	.040	1.5
APR 07...	65	19	.9	15000	90	19	.32	.020	.040	1.0
MAY 06...	89	10	.6	430	40	27	.74	.040	.060	1.0
JUN 04...	87	24	.2	1500	150	24	.54	.050	.050	1.0
JUL 08...	78	20	.7	2300	150	21	.49	.070	.040	3.0
AUG 04...	99	13	.4	1500	140	26	.37	.070	.050	1.0
SEP 03...	121	12	.6	4300	40	32	.85	.090	.040	1.0

02207500 YELLOW RIVER NEAR COVINGTON, GA.

LOCATION.--Lat 33°36'52", long 83°54'54", Newton County, Hydrologic Unit 03070103, at downstream end of left bank pier of bridge on State Highway 12, 50 ft (15 m) downstream from Interstate Highway 20, 0.2 mi (0.3 km) downstream from Georgia Railroad bridge, 0.5 mi (0.8 km) downstream from Gum Creek, and 3.5 mi (5.6 km) northwest of Covington.
DRAINAGE AREA.--378 mi^2 (979 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September to December 1897, May 1899 to December 1901, July 1944 to September 1960, October 1975 to current year. Published as "at Almon", 1897-1901. Water years 1961-65 (annual maximum only).
REVISED RECORDS.--WSP 1112: 1945(M), 1946. WSP 1624: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 616.99 ft (188.059 m) National Geodetic Vertical Datum of 1929. September to December 1897, staff gage at about same site at different datum. May 1899 to December 1901, staff gage at site 1 mi (1.6 km) upstream at different datum.
REMARKS.--Records good except those for periods of no gage-height record, Nov. 20 to Jan. 18, which are fair.
AVERAGE DISCHARGE.--24 years (1899-1901, 1944-60, 1975-81), 471 ft^3/s (13.3 m^3/s), 16.92 in/yr (430 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,200 ft^3/s (459 m^3/s) Nov. 29, 1948, gage height, 20.3 ft (6.19 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Oct. 7, 1954.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft^3/s (99.1 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 12	0330	*4350	123	13.36	4.072

Minimum daily discharge, 40 ft^3/s (1.13 m^3/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1070	268	240	186	173	358	999	263	208	67	126	72
2	591	218	220	183	347	370	997	207	233	75	173	70
3	363	190	210	180	508	356	676	180	253	103	132	69
4	263	278	200	177	329	335	531	167	228	121	103	73
5	214	376	195	174	262	525	515	160	188	121	102	119
6	191	331	190	168	235	530	696	156	165	204	104	146
7	173	311	185	189	223	414	540	183	196	206	165	100
8	163	301	180	207	220	360	454	193	266	142	306	84
9	155	297	200	192	225	334	409	166	234	114	181	74
10	150	295	300	182	344	366	378	156	175	96	155	68
11	142	290	450	175	2840	315	350	353	156	85	140	65
12	137	287	700	170	4040	286	328	490	187	80	144	62
13	130	281	500	165	2170	274	308	313	196	158	118	58
14	127	194	300	162	913	270	291	229	164	125	103	56
15	125	177	270	160	664	263	276	228	148	87	93	59
16	127	331	250	160	551	265	257	233	117	74	88	70
17	129	296	230	160	495	265	245	199	104	74	141	94
18	127	241	220	162	822	274	239	183	98	103	132	72
19	147	213	215	161	1580	398	234	186	92	120	113	62
20	265	195	210	171	1410	359	234	239	88	89	95	59
21	178	190	205	211	894	299	326	211	87	78	90	55
22	151	185	200	240	665	287	319	187	85	68	87	51
23	141	180	198	211	598	307	274	165	80	64	87	50
24	138	175	195	194	544	294	265	152	76	61	83	49
25	144	210	192	191	473	270	275	141	79	56	79	46
26	178	250	190	190	427	257	227	133	87	54	72	44
27	167	230	188	186	392	248	204	202	73	60	69	43
28	170	280	190	200	373	243	190	410	70	98	70	42
29	276	350	192	193	---	238	196	259	68	91	69	40
30	275	270	190	176	---	493	271	188	67	64	70	41
31	322	---	188	172	---	1270	---	173	---	72	71	---
TOTAL	6929	7690	7593	5648	22717	11123	11504	6705	4268	3010	3561	1993
MEAN	224	256	245	182	811	359	383	216	142	97.1	115	66.4
MAX	1070	376	700	240	4040	1270	999	490	266	206	306	146
MIN	125	175	180	160	173	238	190	133	67	54	69	40
CFSM	.59	.68	.65	.48	2.15	.95	1.01	.57	.38	.26	.30	.18
IN.	.68	.76	.75	.56	2.24	1.09	1.13	.66	.42	.30	.35	.20

CAL YR 1980 TOTAL 226349 MEAN 618 MAX 5500 MIN 76 CFSM 1.64 IN 22.28
WTR YR 1981 TOTAL 92741 MEAN 254 MAX 4040 MIN 40 CFSM .67 IN 9.13

02207500 YELLOW RIVER NEAR COVINGTON, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—December 1957 to May 1958, January 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV					
18...	1245	242	--	12	7.8
JAN					
08...	1045	211	3.0	9	5.1
FEB					
12...	1510	4020	5.5	96	1040
MAR					
25...	1100	270	10.0	10	7.3
MAY					
07...	1450	196	18.5	26	14
JUN					
16...	1245	118	27.0	18	5.7
JUL					
23...	0700	64	24.5	16	2.8
SEP					
09...	1245	73	24.0	11	2.2

02208005 YELLOW RIVER NEAR STEWART, GA.

LOCATION.--Lat 33°26'26", long 83°52'43", Newton County, Hydrologic Unit 03070103, at bridge on State Highway 212, 2.5 mi (4.0 km) northwest of Stewart.
DRAINAGE AREA.--440 mi^2 (1,140 km^2), approximately.
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
07...	1030	250	7.2	7.1	18.0	14.0	9.8
NOV							
04...	1230	300	7.2	7.4	23.0	14.5	9.7
DEC							
03...	1330	290	6.9	7.2	14.0	8.0	7.9
JAN							
07...	1100	275	6.9	7.4	5.0	3.0	12.2
FEB							
04...	1300	480	6.7	7.0	9.0	3.0	12.3
MAR							
04...	0845	480	--	7.2	7.0	12.0	9.6
APR							
07...	1245	710	--	7.1	25.0	15.5	9.0
MAY							
06...	1130	190	--	7.4	23.0	19.0	7.4
JUN							
04...	1245	300	7.2	7.1	33.0	25.0	6.8
JUL							
08...	0930	205	7.0	7.1	33.0	25.0	6.3
AUG							
04...	1315	160	7.1	7.1	34.5	25.0	7.3
SEP							
03...	1445	68	7.5	7.2	33.0	26.0	7.9

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
07...	69	12	.5	1500	18	>0	.49	<.020	.090	2.0
NOV										
04...	74	9	.7	2300	21	5	.42	<.020	.240	2.5
DEC										
03...	71	7	1.1	150	18	5	.64	.020	.110	<1.0
JAN										
07...	69	6	1.3	430	20	<1	.71	<.020	.080	2.0
FEB										
04...	60	36	1.5	390	14	36	.54	.060	.130	2.6
MAR										
04...	64	12	.4	90	16	10	.52	<.020	.090	1.0
APR										
07...	58	26	.9	230	16	37	.35	<.020	.080	1.0
MAY										
06...	75	12	.5	1200	24	13	.74	.020	.100	<1.0
JUN										
04...	71	23	.3	390	19	21	.61	.030	.050	2.0
JUL										
08...	66	32	1.1	930	16	33	.58	.030	.170	4.2
AUG										
04...	82	16	1.2	590	20	24	.71	.050	.140	3.5
SEP										
03...	98	9	1.4	230	26	<1	.84	.120	.120	2.0

02208450 ALCOVY RIVER ABOVE COVINGTON, GA.

LOCATION.--Lat 33°38'24", long 83°46'45", Newton County, Hydrologic Unit 03070103, at right bank on city of Covington water works intake structure, 400 ft (122 m) upstream from bridge on Alcovy Road, 600 ft (183 m) upstream from Georgia Railroad trestle, and 6 mi (10 km) northeast of Covington.

DRAINAGE AREA.--185 mi^2 (479 km^2), approximately.

PERIOD OF RECORD.--January 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (198 m), from topographic map.

REMARKS.--Records good. Discharge affected by diversions by city of Covington.

AVERAGE DISCHARGE.--9 years, 267 ft^3/s (7.56 m^3/s), 19.60 in/yr (498 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,530 ft^3/s (185 m^3/s) Mar. 16, 1976, gage height, 14.79 ft (4.508); minimum daily, 5.5 ft^3/s (0.16 m^3/s) July 26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,730 ft^3/s (49.0 m^3/s) Feb. 12, gage height, 10.15 ft (3.094 m), no peaks above base of 1,800 ft^3/s (51.0 m^3/s); minimum daily discharge, 5.5 ft^3/s (0.16 m^3/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	374	120	129	100	94	206	417	106	91	15	18	19
2	382	109	116	100	150	205	451	97	100	17	44	35
3	274	95	110	100	221	198	362	86	87	27	47	68
4	151	90	106	98	222	192	292	81	90	44	43	69
5	109	109	100	97	166	242	250	79	83	45	33	175
6	93	130	97	94	137	274	258	76	95	50	34	90
7	85	113	97	105	129	258	267	78	96	60	28	60
8	79	99	98	114	129	214	236	80	113	53	52	46
9	76	95	99	111	122	186	199	79	104	41	76	38
10	72	93	177	105	162	169	181	77	85	33	68	30
11	70	92	294	101	1140	159	170	108	70	26	49	25
12	69	86	296	100	1630	152	159	116	62	24	47	22
13	67	84	199	99	1350	147	145	137	60	27	42	20
14	66	83	153	99	738	148	132	101	57	40	33	19
15	65	92	135	98	450	147	124	94	53	28	26	18
16	63	117	127	98	354	146	117	98	46	21	23	17
17	63	135	124	97	303	143	112	91	40	20	31	19
18	64	130	118	96	350	151	110	82	35	18	33	21
19	68	116	112	94	523	195	108	81	33	15	77	17
20	73	107	110	95	636	198	112	87	33	18	63	14
21	87	100	107	108	617	175	141	88	31	17	38	15
22	78	96	105	118	459	161	136	78	29	13	31	17
23	70	95	104	116	362	157	127	69	27	10	28	14
24	67	105	104	107	322	148	121	64	23	7.3	25	13
25	72	117	103	101	290	139	114	58	22	5.6	22	12
26	80	120	101	98	259	133	110	54	23	5.5	20	12
27	86	140	98	98	235	130	102	61	19	10	18	11
28	86	169	99	108	218	132	92	84	17	14	16	11
29	96	178	100	106	---	130	91	83	17	8.6	15	10
30	116	152	101	99	---	174	104	66	15	6.0	16	8.4
31	120	---	100	95	---	291	---	60	---	5.6	18	---
TOTAL	3321	3367	3919	3155	11768	5500	5340	2599	1656	724.6	1114	945.4
MEAN	107	112	126	102	420	177	178	83.8	55.2	23.4	35.9	31.5
MAX	382	178	296	118	1630	291	451	137	113	60	77	175
MIN	63	83	97	94	94	130	91	54	15	5.5	15	8.4
CFSM	.58	.61	.68	.55	2.27	.96	.96	.45	.30	.13	.19	.17
IN.	.67	.68	.79	.63	2.37	1.11	1.07	.52	.33	.15	.22	.19

CAL YR 1980 TOTAL 107727.0 MEAN 294 MAX 2980 MIN 31 CFSM 1.59 IN 21.66
WTR YR 1981 TOTAL 43409.0 MEAN 119 MAX 1630 MIN 5.5 CFSM .64 IN 8.73

02209260 ALCOVY RIVER ABOVE STEWART, GA.

LOCATION.—Lat 33°26'58", long 83°49'42", Newton County, Hydrologic Unit 03070103, at bridge on Newton Factory Bridge Road, 2.6 mi (4.2 km) northeast of Stewart.

DRAINAGE AREA.—250 mi^2 (650 km^2), approximately.

PERIOD OF RECORD.—July 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
07...	1100	7.2	7.0	18.5	14.5	10.0
NOV						
04...	1300	7.2	7.3	22.0	13.5	9.5
DEC						
03...	1300	6.9	7.0	13.5	7.5	9.5
JAN						
07...	1230	6.8	7.3	6.0	3.0	12.3
FEB						
04...	1330	6.7	6.9	8.5	3.0	12.0
MAR						
04...	0915	6.6	7.0	11.0	12.0	9.4
APR						
07...	1330	6.7	7.2	25.0	16.0	9.4
MAY						
06...	1230	6.9	7.4	24.0	18.5	8.7
JUN						
04...	1330	7.4	7.1	34.0	23.5	7.7
JUL						
08...	1115	7.3	7.2	34.0	26.0	7.6
AUG						
04...	1345	7.2	7.1	34.0	25.5	7.5
SEP						
03...	1530	7.4	7.2	31.0	26.0	7.7

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
07...	49	14	.5	90	12	8	.28	<.020	.040	2.5
NOV										
04...	52	8	.8	240	16	2	.08	.160	.020	3.5
DEC										
03...	49	6	.7	90	13	1	.26	.020	.040	1.0
JAN										
07...	50	7	1.5	40	15	<1	.44	.020	.030	1.0
FEB										
04...	50	12	2.1	2300	12	12	.44	.150	.070	2.0
MAR										
04...	47	10	.5	40	13	1	.27	<.020	.410	1.5
APR										
07...	49	12	.8	55	16	15	.22	.020	.040	2.0
MAY										
06...	54	14	.5	40	20	4	.52	<.020	.050	3.0
JUN										
04...	56	23	.2	90	18	9	.39	.040	.120	2.0
JUL										
08...	53	21	.4	150	19	3	.36	.020	.040	4.2
AUG										
04...	53	20	.6	230	17	12	.33	.040	.040	4.0
SEP										
03...	64	13	.3	580	21	<1	.35	.050	.220	4.0

02210500 OCMULGEE RIVER NEAR JACKSON, GA.

LOCATION.--Lat 33°18'27", long 83°50'18", Butts-Jasper County line, Hydrologic Unit 03070103, on right bank 500 ft (152 m) upstream from bridge on State Highway 16, 0.5 mi (0.8 km) upstream from Yellow Water Creek, 1 mi (1.6 km) downstream from Lloyd Shoals Dam, and 7 mi (11 km) east of Jackson.

DRAINAGE AREA.--1,420 mi^2 (3,680 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1906 to September 1915, August 1939 to September 1960, October 1975 to current year. Water years 1920, 1961-65 (annual maximum only).

GAGE.--Water-stage recorder. Datum of gage is 419.29 ft (127.800 m), National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1913, staff gage, Jan. 1 to Dec. 31, 1913, water-stage recorder, Jan. 1, 1914, to Dec. 31, 1915, staff gage, and August 1939 to September 1960, water-stage recorder, all at present site and datum.

REMARKS.--Records fair. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

AVERAGE DISCHARGE.--36 years (1906-15, 1939-60, 1975-81), 1,726 ft^3/s (48.9 m^3/s), 16.51 in/yr (419 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,600 ft^3/s (1,600 m^3/s) Nov. 28, 1948, gage height, 23.9 ft (7.28 m); minimum daily, 18 ft^3/s (0.51 m^3/s) Nov. 20, 1910.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 26.8 ft (8.17 m) Dec. 11, 1919, from graph based on gage readings, discharge, 69,000 ft^3/s (1,950 m^3/s), by computation of flow over dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,200 ft^3/s (487 m^3/s) Feb. 11, gage height, 11.54 ft (3.517 m); minimum daily, 356 ft^3/s (10.1 m^3/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	565	1070	1130	857	795	2900	1110	961	471	436	479
2	918	562	719	862	868	811	2810	1110	956	498	426	475
3	1070	567	699	650	880	825	2780	1090	962	503	439	486
4	1060	866	705	645	966	1700	2770	1100	842	502	445	468
5	1040	1050	903	785	1060	2270	2670	1110	600	505	457	469
6	1180	1000	1170	767	1070	2020	2490	1120	603	505	499	450
7	1130	1010	1090	659	1090	2010	2490	1120	639	505	492	444
8	1020	1090	1120	661	1080	2000	1470	887	1130	505	520	442
9	1020	1100	1110	650	1070	853	1060	656	942	502	480	435
10	760	892	1100	645	1720	856	1060	692	688	500	480	436
11	502	729	1000	645	4830	923	1070	682	624	496	488	436
12	504	750	902	1020	16000	1140	1080	683	630	492	500	437
13	496	752	1120	878	8500	1160	1080	683	631	486	482	444
14	515	746	1080	621	4270	1160	1090	674	640	487	478	448
15	518	754	1180	610	4070	1160	1090	1130	642	479	477	444
16	537	771	1190	625	3590	1170	1100	783	637	472	477	436
17	548	755	1080	627	2090	1170	1110	560	591	465	483	425
18	550	900	1090	616	2130	1420	1120	566	454	460	476	428
19	566	1040	1050	613	3890	1660	1120	572	483	457	473	416
20	556	1050	1060	614	4960	1600	1130	579	490	450	465	418
21	561	1020	1050	620	4690	1590	1130	559	500	442	483	418
22	569	653	1060	620	3000	1600	1130	560	510	422	468	411
23	567	664	1050	620	2230	1630	1120	568	563	436	481	411
24	564	673	1040	881	2240	1440	1120	574	595	415	457	413
25	573	878	1050	999	2060	1060	1120	575	591	425	472	390
26	560	953	1160	1020	1940	1050	1130	910	580	430	476	364
27	559	1040	1210	1030	1940	788	971	1450	575	421	471	378
28	572	972	1070	1030	837	1040	787	1120	575	402	476	376
29	565	868	974	1040	---	1040	768	900	526	405	476	356
30	572	1090	1090	1000	---	2100	911	921	486	408	478	366
31	565	---	1140	895	---	2520	---	960	---	411	481	---
TOTAL	21967	25760	32332	24078	83928	42561	43677	26004	19646	14357	14692	12799
MEAN	709	859	1043	777	2997	1373	1456	839	655	463	474	427
MAX	1250	1100	1210	1130	16000	2520	2900	1450	1130	505	520	486
MIN	496	562	699	610	837	788	768	559	454	402	426	356
MEAN†	670	832	1004	797	3224	1360	1409	784	594	437	520	340
CFSM†	.54	.59	.71	.56	2.27	.96	.99	.55	.42	.31	.37	.24
IN†	.62	.65	.82	.65	2.37	1.11	1.11	.64	.47	.35	.42	.27

CAL YR 1980 TOTAL 781986 MEAN 2137 MAX 19000 MIN 496 MEAN† 2126 CFSM† 1.50 IN† 20.32
WTR YR 1981 TOTAL 361801 MEAN 991 MAX 16000 MIN 356 MEAN† 981 CFSM† 0.69 IN† 9.38

† ADJUSTED FOR CHANGE IN CONTENTS IN LLOYD SHOALS RESERVOIR.

02210500 OCMULGEE RIVER NEAR JACKSON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
14...	1355	478	7.0	6.9	21.0	20.0	6.4
NOV							
11...	1130	738	6.7	7.1	17.0	16.0	6.5
DEC							
02...	0915	705	--	7.1	6.5	10.5	8.2
JAN							
14...	1245	630	6.8	7.2	6.0	13.5	10.0
FEB							
10...	1330	2310	--	7.2	9.5	6.0	10.4
MAR							
10...	1245	856	--	7.1	13.0	18.5	7.4
APR							
21...	1300	1130	7.0	6.8	18.0	18.0	5.0
MAY							
11...	1200	683	6.7	6.3	15.5	20.0	8.6
JUN							
10...	1045	610	6.5	6.9	31.0	25.5	2.2
JUL							
08...	1015	505	7.0	6.9	32.0	27.0	2.5
AUG							
04...	1430	444	6.8	6.9	33.0	26.0	3.0
SEP							
21...	1000	412	7.3	7.1	26.5	24.0	4.5

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
14...	83	5	2.5	40	19	4	.61	.030	.080	2.0
NOV										
11...	92	4	1.6	<30	22	34	.62	.200	.120	2.5
DEC										
02...	185	8	1.5	90	29	<1	2.9	.420	.820	6.0
JAN										
14...	83	4	.7	<30	21	<1	.80	.100	.170	4.0
FEB										
10...	93	9	3.0	<30	21	14	<.02	.020	.280	2.8
MAR										
10...	66	16	1.9	<35	13	12	.62	.130	.100	1.5
APR										
21...	65	6	1.1	40	17	2	.43	.210	.100	2.0
MAY										
11...	82	4	2.0	40	21	<1	.50	.220	.110	2.0
JUN										
10...	89	3	1.6	--	22	2	.44	.140	.110	2.0
JUL										
08...	92	18	1.1	40	25	3	.12	.350	.110	5.0
AUG										
04...	105	10	6.6	70	34	24	.10	.930	.230	2.5
SEP										
21...	104	5	2.7	<30	27	10	.02	.250	.120	2.9

02212500 OCMULGEE RIVER AT JULIETTE, GA.

LOCATION.--Lat 33°05'50", long 83°47'10", Monroe-Jones County line, Hydrologic Unit 03070103, on left bank 0.9 mi (1.4 km) downstream from Juliette Mills at Juliette, and 2.5 mi (4.0 km) downstream from Towaliga River.

DRAINAGE AREA.--1,960 mi^2 (5,080 km^2).

PERIOD OF RECORD.--June 1916 to September 1921, July 1974 to current year.

REVISED RECORDS.--WSP 1304: Drainage area. WRD GA-80-1: 1920(M), 1975(M).

GAGE.--Water-stage recorder. Datum of gage is 340.97 ft (103.928 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except those of no gage-height record, Apr. 8 to May 18, which are fair. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

AVERAGE DISCHARGE.--12 years (1916-21, 1974-81), 2,634 ft^3/s (74.6 m^3/s), 18.25 in/yr (464 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,400 ft^3/s (1,910 m^3/s), Dec. 11, 1919, gage height, 30.8 ft (9.39 m); minimum daily, 365 ft^3/s (10.3 m^3/s) Nov. 4, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 32 ft (9.75 m) in May 1886, from floodmarks, discharge, 73,000 ft^3/s (2,070 m^3/s), revised.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,600 ft^3/s (611 m^3/s) Feb. 12, gage height, 17.30 ft (5.273 m); minimum daily, 367 ft^3/s (16.9 m^3/s) Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1880	725	1260	1230	1030	1150	4840	1400	1140	461	511	486
2	1570	736	1000	1140	1120	1230	4950	1400	1130	476	560	540
3	1460	767	834	763	1170	1210	3950	1400	1250	519	537	596
4	1300	942	821	747	1150	1620	3540	1380	1290	581	528	604
5	1270	1310	870	854	1290	2950	3360	1380	862	542	518	647
6	1310	1260	1250	775	1280	2810	3070	1380	777	523	505	560
7	1380	1080	1220	893	1280	2560	2970	1380	770	519	506	531
8	1180	1200	1200	805	1300	2480	2880	1100	1270	517	531	521
9	1170	1220	1220	793	1280	1650	2000	850	1370	510	556	505
10	1100	1140	1380	788	2740	1190	1400	900	1060	502	534	496
11	629	809	1440	775	15300	1170	1350	900	834	496	580	489
12	612	826	1240	982	20100	1440	1350	900	834	508	771	549
13	607	824	1220	1110	14500	1480	1360	850	836	494	643	492
14	609	819	1230	786	5470	1470	1380	950	823	483	634	445
15	617	862	1280	759	5010	1460	1390	1200	813	474	600	462
16	647	880	1300	760	4670	1470	1400	1450	799	470	568	483
17	637	857	1230	766	3130	1450	1400	950	762	505	605	476
18	643	879	1170	753	3460	1540	1400	700	635	446	607	463
19	656	1130	1150	756	5530	2240	1400	696	595	413	602	458
20	640	1140	1150	764	6070	2090	1420	700	589	458	599	455
21	644	1170	1130	786	5830	2000	1430	687	587	459	502	448
22	645	918	1130	786	4450	2010	1460	673	580	450	576	446
23	639	783	1130	784	3060	2100	1440	662	607	448	499	443
24	657	855	1150	882	2950	2060	1420	660	645	440	572	442
25	660	1040	1150	1200	2810	1430	1400	654	657	439	492	440
26	698	1260	1220	1200	2460	1380	1350	803	626	438	539	404
27	705	1240	1260	1210	2460	1100	1200	1570	656	441	570	367
28	759	1370	1290	1250	1740	1280	1050	1940	631	440	570	387
29	762	1090	1080	1250	---	1300	1000	1200	615	436	484	368
30	757	1210	1110	1230	---	2070	1200	1130	545	449	398	377
31	751	---	1230	1110	---	3330	---	1150	---	444	434	---
TOTAL	27594	30342	36345	28687	122640	54720	59760	32995	24588	14781	17131	14380
MEAN	890	1011	1172	925	4380	1765	1992	1064	820	477	553	479
MAX	1880	1370	1440	1250	20100	3330	4950	1940	1370	581	771	647
MIN	607	725	821	747	1030	1100	1000	654	545	413	398	367

CAL YR 1980 TOTAL 995287 MEAN 2719 MAX 23900 MIN 596 MEAN† 2708 CFSM† 1.38 IN† 18.76
WTR YR 1981 TOTAL 463963 MEAN 1271 MAX 20100 MIN 367 MEAN† 1261 CFSM† 0.64 IN† 8.73

† ADJUSTED FOR CHANGE IN CONTENTS IN LLOYD SHOALS RESERVOIR.

02212600 FALLING CREEK NEAR JULIETTE, GA.

(Hydrologic bench-mark station)

LOCATION.—Lat 33°05'59", long 83°43'25", Jones County, Hydrologic Unit 03070103, on left bank 100 ft (30 m) upstream from highway bridge, 4 mi (6.4 km) upstream from Caney Creek, and 5.1 mi (8.2 km) east of Juliette.
DRAINAGE AREA.—72.2 mi^2 (187 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—July 1964 to current year.
GAGE.—Water-stage recorder. Altitude of gage is 370 ft (113 m), from topographic map.
REMARKS.—Records good.
AVERAGE DISCHARGE.—17 years, 66.5 ft^3/s (1.88 m^3/s), 12.51 in/yr (318 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 7,700 ft^3/s (218 m^3/s) Mar. 2, 1971, gage height, 23.0 ft (7.010 m), from floodmark; minimum, 0.14 ft^3/s (0.004 m^3/s) Sept. 29, 30, 1972.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 1,100 ft^3/s (31.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	0915	*5550	157	20.21	6.160

Minimum discharge, 0.15 ft^3/s (0.004 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	11	21	14	16	38	380	12	9.0	1.6	6.8	.85
2	23	9.1	20	13	33	44	293	11	8.8	2.3	13	.83
3	13	8.2	19	13	41	41	124	10	9.8	2.9	11	.82
4	7.1	15	17	13	32	39	79	9.5	9.3	3.8	6.3	.90
5	5.0	24	16	12	27	82	61	8.9	8.0	7.3	3.5	.95
6	4.0	16	16	12	24	72	53	9.3	11	4.1	2.0	1.2
7	3.4	12	15	20	24	51	45	11	15	2.8	2.6	1.2
8	3.0	11	15	24	25	43	40	12	53	2.0	6.3	1.3
9	2.8	11	15	19	22	39	37	9.7	31	1.5	6.3	1.2
10	2.6	11	65	17	458	37	35	9.1	18	1.2	4.6	.97
11	2.8	11	87	16	3950	35	33	15	13	1.0	9.1	.80
12	2.5	11	50	16	551	33	32	15	11	1.0	110	.70
13	2.4	11	36	16	187	33	30	11	9.4	1.1	16	.64
14	2.3	11	29	15	124	32	28	8.9	8.5	5.1	5.4	.60
15	2.4	18	25	15	94	31	27	7.6	7.1	4.1	3.0	.74
16	2.5	37	23	15	79	33	25	6.9	6.0	4.3	1.8	1.1
17	2.8	25	22	14	69	32	23	6.8	7.9	3.2	2.1	1.0
18	3.3	29	18	14	337	35	22	6.5	4.5	4.0	9.5	.91
19	3.9	26	16	14	392	75	22	6.8	3.7	2.0	5.7	.70
20	4.1	21	15	15	167	56	22	7.1	3.7	1.4	3.0	.68
21	4.1	19	14	19	100	41	27	8.2	4.8	1.8	2.1	.66
22	4.1	17	13	19	75	45	26	7.9	4.6	1.1	1.4	.64
23	4.2	17	14	16	67	61	23	7.3	4.3	.73	1.1	.60
24	5.2	22	15	15	56	50	24	6.4	2.8	.62	1.1	.50
25	6.7	25	20	15	48	42	22	5.8	6.9	1.7	1.0	.41
26	8.3	21	17	14	44	38	19	6.2	6.4	1.4	1.1	.36
27	7.5	27	15	14	41	36	17	46	4.3	.74	1.1	.30
28	15	35	15	21	39	34	15	44	2.8	2.5	.85	.26
29	21	29	15	22	---	32	13	19	2.2	1.1	.67	.20
30	16	24	14	18	---	60	14	13	1.7	1.8	.88	.16
31	14	---	14	17	---	108	---	9.6	---	3.3	.83	---
TOTAL	286.0	564.3	706	497	7122	1428	1611	367.5	288.5	73.49	240.13	22.18
MEAN	9.23	18.8	22.8	16.0	254	46.1	53.7	11.9	9.62	2.37	7.75	.74
MAX	87	37	87	24	3950	108	380	46	53	7.3	110	1.3
MIN	2.3	8.2	13	12	16	31	13	5.8	1.7	.62	.67	.16
CFSM	.13	.26	.32	.22	3.52	.64	.74	.17	.13	.03	.11	.01
IN.	.15	.29	.36	.26	3.67	.74	.83	.19	.15	.04	.12	.01

CAL YR 1980	TOTAL 25843.80	MEAN 70.6	MAX 1940	MIN 2.2	CFSM .98	IN 13.32
WTR YR 1981	TOTAL 13206.10	MEAN 36.2	MAX 3950	MIN .16	CFSM .50	IN 6.80

02212600 FALLING CREEK NEAR JULIETTE, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—October 1967 to current year.
PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: August 1965 to September 1979.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum, 31.5°C Aug. 3, 1970; minimum, 0.0°C Jan. 9, 10, 1970, Dec. 26, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT								
07...	0800	3.3	130	128	7.5	7.4	12.0	9.4
NOV								
04...	0830	10	130	128	7.1	7.3	14.0	9.1
DEC								
16...	0830	23	120	115	7.2	7.2	7.5	11.5
JAN								
27...	0830	13	120	121	7.3	7.5	6.5	11.6
FEB								
18...	0830	70	70	67	7.1	7.1	12.5	10.0
MAR								
17...	0800	32	100	101	7.4	7.4	7.5	10.0
APR								
07...	0830	45	92	92	7.2	7.6	12.5	9.6
MAY								
05...	0700	8.3	130	128	7.2	7.5	15.5	9.4
JUN								
03...	0700	9.5	131	134	--	7.7	21.0	8.8
JUL								
07...	0730	3.0	155	170	7.8	7.5	22.5	7.1
AUG								
11...	0700	3.5	115	114	--	7.4	23.5	7.5
SEP								
08...	0700	1.4	135	132	7.8	7.8	22.0	6.4

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT										
07...	1200	4800	40	3.0	8.3	4.7	9.7	1.5	37	14
NOV										
04...	670	330	39	.00	8.2	4.5	10	2.0	40	8.7
DEC										
16...	430	1200	33	8.0	6.8	4.0	9.2	1.3	25	14
JAN										
27...	190	770	37	1.0	7.8	4.2	9.1	1.2	36	11
FEB										
18...	420	800	21	7.0	4.1	2.5	4.8	1.0	17	6.6
MAR										
17...	250	830	30	.00	7.7	2.5	6.8	1.0	35	6.6
APR										
07...	300	1200	34	.00	7.1	3.7	7.1	1.0	36	4.6
MAY										
05...	370	670	46	.00	10	5.1	7.6	1.2	59	2.5
JUN										
03...	580	830	50	.00	11	5.5	8.6	4.4	56	3.3
JUL										
07...	110	390	57	.00	13	5.9	8.5	1.6	74	3.5
AUG										
11...	190	360	46	.00	9.9	5.1	9.2	1.1	51	2.6
SEP										
08...	200	540	37	.00	10	2.8	8.2	1.3	63	.0

02212600 FALLING CREEK NEAR JULIETTE, GA.—Continued

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT										
07...	3.7	.8	23	109	89	.97	.02	--	--	--
NOV										
04...	4.6	.8	21	80	84	2.2	.01	.050	.10	.15
DEC										
16...	4.7	.5	21	95	77	5.9	.01	.030	.18	.21
JAN										
27...	4.6	.7	21	92	81	3.2	.01	.020	--	<.10
FEB										
18...	2.8	.2	15	58	49	11.0	.05	.110	.10	.21
MAR										
17...	3.5	.5	21	62	71	5.4	<.01	.010	.19	.20
APR										
07...	3.1	.4	21	70	71	8.5	.01	.030	.24	.27
MAY										
05...	3.0	.5	24	--	90	2.0	.08	.020	.27	.29
JUN										
03...	2.7	.6	22	85	89	2.2	.05	<.010	--	.26
JUL										
07...	3.5	1.2	21	112	103	.91	.05	.020	.42	.44
AUG										
11...	2.6	.4	23	84	85	.79	.11	.040	.30	.34
SEP										
08...	3.4	.7	20	89	84	.34	.05	.020	.18	.20

DATE	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT									
07...	--	--	--	.020	--	--	4	.04	--
NOV									
04...	.04	.11	.16	.070	.020	--	43	1.2	95
DEC									
16...	.00	.28	.22	.010	.010	4.4	8	.50	89
JAN									
27...	--	<.10	--	.020	.010	2.2	4	.14	92
FEB									
18...	.04	.17	.26	.040	.020	5.3	27	5.1	97
MAR									
17...	.10	.10	--	.020	.010	2.6	7	.60	91
APR									
07...	.03	.24	.28	.030	.010	--	17	2.1	91
MAY									
05...	.00	.30	.37	.010	<.010	2.0	10	.22	93
JUN									
03...	.05	.21	.31	<.010	<.010	3.6	8	.21	100
JUL									
07...	.10	.34	.49	.010	.020	3.1	6	.05	80
AUG									
11...	.07	.22	.45	.010	.010	3.4	4	.04	100
SEP									
08...	.03	.17	.25	.010	<.010	8.6	6	.02	100

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, DIS-SOLVED (UG/L AS CO)
OCT 07...	1	1	100	20	2	<1	4	20	1	<3
NOV 04...	--	0	100	20	2	1	5	10	2	<3
APR 07...	0	0	100	30	0	0	2	<10	0	0

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	LITHIUM DIS-SOLVED (UG/L AS LI)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
OCT 07...	2	<10	820	630	1	<10	<4	130	120	<.1
NOV 04...	3	<10	1100	170	0	<10	<4	100	80	<.1
APR 07...	3	0	1300	6	8	0	26	140	7	.3

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	VANA-DIUM, DIS-SOLVED (UG/L AS V)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT 07...	<.1	<10	0	0	0	0	77	<6.0	10	<4
NOV 04...	<.1	<10	0	0	0	0	73	<6.0	10	<4
APR 07...	<.1	0	0	0	0	0	690	.0	40	10

DATE	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM NATURAL DIS-SOLVED (UG/L AS U)
JUN 03...	<1.6	1.1	<.4	.3	1.8	1.9	<.4	<.4	.02	2.5

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)
MAY										
05...	<.10	<.01	<.10	<.01	<.01	<.01	<.01	<.01	<.01	<.01

DATE	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	NAPH-THA-LENES, POLY-CHLOR, TOTAL (UG/L)
MAY									
05...	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.10

DATE	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	MIREX, TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
MAY									
05...	<.01	<.01	<0	<.01	<.01	<.01	<.01	<.01	<.01

DATE	PCB, TOTAL IN BOT-TOM MA-TFRIAL (UG/KG)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDO-SULFAN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
MAY									
05...	<1	<.1	<1.0	<.1	<.1	<.1	<.1	<.1	<.1

DATE	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL IN BOT-TOM MA-TFRIAL (UG/KG)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PER-THANE IN BOTTOM MATERIL (UG/KG)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MIREX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
MAY								
05...	<.1	<.1	<.1	<.1	<1.0	<.10	<1.0	<.1

02212950 OCMULGEE RIVER ABOVE MACON, GA.

LOCATION.—Lat 32°52'11", long 83°39'15", Bibb County, Hydrologic Unit 03070103, at Macon water works intake, 1.2 mi (1.9 km) north of Macon city limits, and at mile 201 (323 km).

DRAINAGE AREA.—2,240 mi^2 (5,800 km^2), approximately.

PERIOD OF RECORD.—July 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Discharge obtained from gaging station 02213000, Ocmulgee River at Macon, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT									
22...	1200	636	--	88	--	7.3	23.0	18.5	8.7
NOV									
19...	1330	910	96	92	--	7.1	12.0	13.5	10.1
DEC									
10...	1500	1080	103	91	--	7.5	12.5	12.5	10.0
JAN									
14...	1530	780	94	89	--	7.6	13.5	6.5	13.4
FEB									
10...	1050	955	--	90	--	7.3	10.0	8.0	11.6
MAR									
10...	1305	1180	66	67	--	7.3	16.5	13.0	10.2
APR									
07...	1340	2970	70	67	7.1	7.2	21.0	15.5	9.6
MAY									
26...	1600	631	--	84	--	7.5	21.5	24.0	7.8
JUN									
18...	1230	649	97	88	--	7.6	33.5	30.0	6.8
JUL									
21...	1230	448	115	103	7.1	7.5	35.5	34.0	6.1
AUG									
12...	1300	672	--	100	7.3	7.3	30.5	30.0	6.8
SEP									
09...	1210	448	108	104	--	7.4	30.0	29.0	6.9

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
22...	4	--	.4	750	90	18	5	.53	.020	--	.050	2.5
NOV												
19...	3	--	.5	2300	230	22	<1	.65	<.020	--	.060	1.5
DEC												
10...	8	--	1.2	16000	840	22	10	.63	.020	--	.070	3.0
JAN												
14...	5	--	.2	40	<30	21	2	.65	<.020	--	.100	2.0
FEB												
10...	7	--	1.0	230	40	22	2	.83	.050	--	.170	3.0
MAR												
10...	19	--	.8	2300	40	15	11	.54	.050	--	.080	1.5
APR												
07...	13	--	.8	930	40	17	11	.49	.040	--	.080	2.0
MAY												
26...	3	--	1.0	930	40	22	<1	.38	.020	--	.070	3.0
JUN												
18...	4	--	.7	2300	<30	24	<1	.44	<.020	--	.060	<1.0
JUL												
21...	3	9	.4	64000	150	28	1	.36	.040	.20	.060	3.2
AUG												
12...	5	7	.6	750	230	26	14	.53	.070	.68	.070	3.0
SEP												
09...	6	10	.4	4300	70	26	5	.62	.050	.40	.140	3.4

02213000 OCMULGEE RIVER AT MACON, GA.

LOCATION.—Lat 32°50'19", long 83°37'14", Bibb County, Hydrologic Unit 03070103, at downstream end of right pier of Fifth Street Bridge in Macon, 1.5 mi (2.4 km) upstream from Walnut Creek, and at mile 198.0 (318.6 km).

DRAINAGE AREA.—2,240 mi^2 (5,800 km^2), approximately.

PERIOD OF RECORD.—January 1893 to December 1911, January 1912 to December 1913 (gage heights and discharge measurements only), October 1928 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage height records collected at same site since 1895 are contained in reports of National Weather Service.

REVISED RECORDS.—WSP 822: Drainage area. WSP 1504: 1893-1903, 1905-10, 1932, 1937, 1942(M).

GAGE.—Water-stage recorder. Datum of gage is 269.80 ft (82.235 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 9, 1905, nonrecording gage at sites within 1.5 mi (2.4 km) downstream at about same datum. Oct. 9, 1905, to Dec. 31, 1913, nonrecording gage at present site and datum. Jan. 10, 1929, to June 25, 1934, water-stage recorder at site 500 ft (152 m) downstream at same datum. June 25, 1934, to June 25, 1973, water-stage recorder at present site and datum, and June 26, 1973, to Oct. 13, 1974, nonrecording gage at present site and datum.

REMARKS.—Records good except those for period of no gage-height record, Oct. 1-9, which are fair. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.) Records of chemical analyses for the water years 1968-73 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.—71 years (1893-1911, 1928-81), 2,724 ft^3/s (77.1 m^3/s), 16.51 in/yr (419 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 83,500 ft^3/s (2,360 m^3/s) Nov. 29, 1948, gage height, 28.0 ft (8.53 m); maximum gage height, 29.45 ft (8.976 m), from floodmark, Mar. 4, 1971; minimum daily discharge, 128 ft^3/s (3.62 m^3/s) Oct. 24, 1954; minimum gage height observed, -1.0 ft (-0.30 m) Oct. 5, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Jan. 19, 1925, reached a stage of 26.0 ft (7.92 m), from floodmarks at Central of Georgia Railroad bridge, 500 ft (152 m) downstream, discharge 72,500 ft^3/s (2,050 m^3/s).

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 14,000 ft^3/s (396 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	1400	*29300	830	22.47	6.849

Minimum daily discharge, 288 ft^3/s (8.16 m^3/s) Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2430	662	992	921	829	1260	7090	872	981	482	444	400
2	1500	647	989	913	915	1220	6600	950	951	448	532	436
3	1030	653	844	784	931	1220	4890	918	974	456	514	509
4	1030	723	798	641	887	1250	3990	889	1020	541	482	518
5	1140	996	791	633	929	2760	3590	927	923	550	464	568
6	980	1040	863	707	979	3150	3260	1010	718	532	452	545
7	980	907	976	730	985	2650	2990	912	763	505	452	496
8	930	907	914	719	991	2460	2850	955	800	487	478	464
9	950	941	929	695	981	2180	1570	812	1260	487	500	448
10	932	977	1050	681	2630	1200	1330	673	923	487	491	436
11	779	812	1320	670	26900	1120	1280	686	822	469	545	432
12	642	712	1130	652	23000	1220	1260	727	787	464	698	428
13	631	728	940	842	19300	1380	1220	760	740	452	703	500
14	619	723	1020	813	6650	1370	1180	713	733	436	581	412
15	634	770	936	658	5520	1340	1130	665	706	428	550	400
16	638	854	997	638	5020	1380	1090	1050	692	420	541	424
17	657	817	1020	647	4020	1360	1070	805	673	416	523	424
18	651	779	904	648	4660	1360	1070	671	639	456	545	408
19	658	849	890	640	6560	1860	1070	653	576	388	541	400
20	657	872	864	641	6300	2030	1070	667	596	487	532	400
21	633	892	853	675	6130	1880	1150	653	583	448	532	400
22	636	867	841	680	5120	1860	1190	631	579	428	424	396
23	650	721	839	674	3360	1990	1200	617	578	420	536	392
24	647	771	864	669	2790	1980	1370	608	614	416	428	388
25	654	834	924	831	2670	1620	1320	604	640	412	518	388
26	667	962	887	881	2440	1290	1280	613	635	428	384	392
27	682	967	936	893	2340	1260	1240	960	599	432	501	288
28	698	1070	1000	922	2280	1110	1050	1860	608	420	492	300
29	716	1000	896	941	---	1180	889	1110	563	420	505	340
30	698	910	845	926	---	1310	841	972	545	420	400	316
31	682	---	912	879	---	3080	---	1010	---	428	308	---
TOTAL	25831	25383	28964	23244	146117	52330	61130	25953	22221	14063	15596	12648
MEAN	833	846	934	750	5218	1688	2038	837	741	454	503	422
MAX	2430	1070	1320	941	26900	3150	7090	1860	1260	550	703	568
MIN	619	647	791	633	829	1110	841	604	545	388	308	288

CAL YR 1980 TOTAL 1086633 MEAN 2969 MAX 27000 MIN 545 MEAN† 2958 CFSM† 1.32 IN† 17.93
WTR YR 1981 TOTAL 453480 MEAN 1242 MAX 26900 MIN 288 MEAN† 1232 CFSM† 0.55 IN† 7.46

† ADJUSTED FOR CHANGE IN CONTENTS IN LLOYD SHOALS RESERVOIR.

02213050 WALNUT CREEK NEAR GRAY, GA.

LOCATION.--Lat 32°58'20", long 83°37'08", Jones County, Hydrologic Unit 03070103, on downstream side of right bank pier of abandoned bridge, 500 ft (152 m) downstream from bridge on State Highway 18, 1.4 mi (2.3 km) upstream from Bonner Creek, and 5.5 mi (8.8 km) southeast of Gray.

DRAINAGE AREA.--29 mi² (75 km²), approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years, 33.9 ft³/s (0.96 m³/s), 15.87 in/yr (403 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft³/s (439 m³/s) Dec. 26, 1964, gage height, 23.8 ft (7.25 m), from floodmark, from rating curve extended above 5,000 ft³/s (142 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily discharge, 0.05 ft³/s (0.0014 m³/s) Sept. 29, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Zero flow was observed during June, July, and August 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Feb. 11	0330	*4410	125	11.22	3.420
Apr. 1	0915	1370	38.8	4.84	1.475

Minimum daily discharge, 0.05 ft³/s (0.0014 m³/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	3.5	6.2	6.4	8.2	22	633	7.7	5.0	1.6	3.1	.57
2	7.0	3.3	6.0	6.0	27	30	121	7.1	4.7	2.5	3.6	.80
3	5.0	3.2	6.0	6.0	16	23	53	7.0	5.4	2.0	3.2	2.3
4	3.7	6.5	5.6	6.0	12	26	38	6.5	4.7	1.9	2.3	5.0
5	3.2	6.0	5.6	5.9	10	86	31	6.5	4.2	1.9	2.5	3.3
6	2.6	4.0	5.6	6.0	10	40	27	6.8	4.1	1.2	2.8	1.8
7	2.5	3.6	5.7	9.9	10	29	25	7.8	4.4	1.1	1.9	1.2
8	2.3	3.7	5.6	8.6	10	24	23	7.1	5.9	.90	1.1	.93
9	2.1	4.1	5.7	7.4	9.3	22	20	6.5	4.6	.72	1.5	.78
10	1.9	4.0	28	7.2	498	19	19	6.5	3.9	.50	1.4	.78
11	1.8	4.0	17	7.0	1850	18	17	6.5	5.6	.80	1.1	.62
12	1.6	4.3	10	7.0	123	17	16	6.4	6.0	.70	3.6	.58
13	1.6	4.3	8.7	6.9	62	17	15	6.0	5.0	.80	.50	.62
14	1.7	4.7	7.9	6.8	44	17	14	6.0	4.2	.60	.28	1.9
15	1.7	17	7.5	6.7	34	15	14	6.1	3.8	.42	.20	2.0
16	1.9	13	7.5	6.6	28	16	13	5.6	3.5	.40	.17	1.2
17	2.1	8.0	7.3	6.4	25	15	12	5.6	6.0	.30	.34	.80
18	2.0	9.0	6.9	6.4	262	24	12	5.2	4.3	.60	.33	.50
19	2.1	6.5	6.7	6.8	130	29	11	4.8	3.5	.63	.34	.39
20	2.1	5.7	6.5	7.3	62	18	11	4.8	3.2	.60	.23	.84
21	2.0	5.5	6.0	9.1	43	17	11	5.2	4.2	.56	.27	1.3
22	2.0	5.3	6.0	8.2	35	26	10	4.8	3.6	.38	.47	1.0
23	2.1	5.2	6.9	7.6	39	25	10	4.7	3.1	.30	.56	.85
24	2.5	12	7.5	7.3	32	19	13	4.6	2.6	.21	.84	.70
25	3.1	9.5	8.1	7.0	28	17	9.8	4.3	7.0	.37	.80	.41
26	3.2	7.5	7.0	7.0	26	16	9.9	4.7	6.7	.90	.64	.27
27	3.3	10	6.6	7.3	24	16	8.8	9.2	4.5	.55	.56	.37
28	6.2	9.5	6.8	10	23	15	8.1	6.2	3.5	.40	.46	.13
29	4.2	7.5	7.0	8.6	---	15	7.9	4.7	2.6	.48	.48	.05
30	4.2	6.8	7.0	7.9	---	25	7.6	4.4	1.8	.90	.63	.09
31	4.1	---	6.5	8.3	---	24	---	4.6	---	1.5	.69	---
TOTAL	101.8	197.2	241.4	225.6	3480.5	722	1221.1	183.9	131.6	26.52	36.97	31.88
MEAN	3.28	6.57	7.79	7.28	124	23.3	40.7	5.93	4.39	.86	1.19	1.06
MAX	16	17	28	10	1850	86	633	9.2	7.0	2.5	3.6	5.0
MIN	1.6	3.2	5.6	5.9	8.2	15	7.6	4.3	1.8	.21	.17	.05
CFSM	.11	.23	.27	.25	4.28	.80	1.40	.20	.15	.03	.04	.04
IN.	.13	.25	.31	.29	4.46	.93	1.57	.24	.17	.03	.05	.04

CAL YR 1980 TOTAL 14744.49 MEAN 40.3 MAX 2640 MIN .71 CFSM 1.39 IN 18.91
WTR YR 1981 TOTAL 6600.39 MEAN 18.1 MAX 1850 MIN .05 CFSM .62 IN 8.47

02213500 TOBESOFKEE CREEK NEAR MACON, GA.

LOCATION.--Lat 32°48'32", long 83°45'30", Bibb County, Hydrologic Unit 03070103, on right bank at downstream end of pier of bridge on U.S. Highway 80, 8 mi (13 km) west of Macon, and 14 mi (23 km) upstream from mouth.
DRAINAGE AREA.--182 mi^2 (471 km^2).
PERIOD OF RECORD.--March 1937 to current year.
REVISED RECORDS.--WSP 1204: 1942.
GAGE.--Water-stage recorder. Datum of gage is 309.98 ft (94.482 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 28, 1942, nonrecording gage at same site and datum.
REMARKS.--Records good. Flow regulated to some extent since November 1967 by Lake Tobesofkee, about 1 mi (1.6 km) upstream. Records of chemical analyses for the water years 1969-70 are published in reports of the U.S. Geological Survey.
AVERAGE DISCHARGE.--44 years, 197 ft^3/s (5.58 m^3/s), 14.70 in/yr (373 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft^3/s (278 m^3/s) Mar. 21, 1944, gage height, 23.2 ft (7.07 m), from rating curve extended above 6,300 ft^3/s (178 m^3/s); minimum, 2.3 ft^3/s (0.065 m^3/s) Oct. 10, 1954.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft^3/s (53.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Dec. 29	1645	2560	72.5	11.10	3.383	Apr. 1	1230	3250	92.0	12.94	3.944
Feb. 11	1800	*5100	144	17.10	5.212						

Minimum daily discharge, 18 ft^3/s (0.51 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	44	63	232	90	48	1850	83	57	28	24	28
2	50	44	60	229	33	41	1190	78	56	28	24	28
3	77	43	61	228	32	32	606	72	53	28	23	28
4	66	42	57	228	31	33	389	67	52	28	22	28
5	53	55	57	228	31	33	280	63	51	28	25	28
6	49	61	56	178	31	31	226	65	50	28	25	27
7	45	58	56	59	31	30	94	66	52	28	26	26
8	43	50	57	29	30	29	54	65	53	28	28	26
9	39	47	54	37	54	29	65	64	53	25	28	26
10	37	46	130	73	123	29	74	62	52	25	28	26
11	37	43	173	73	4200	29	88	65	58	26	29	26
12	38	44	147	74	4730	28	112	61	70	27	28	26
13	37	45	88	74	1520	28	121	59	66	27	28	27
14	36	40	123	73	495	28	112	57	63	26	27	28
15	35	39	94	72	476	28	108	59	61	26	28	28
16	33	65	47	72	177	28	105	56	56	26	28	28
17	32	94	63	51	105	29	102	52	52	25	28	27
18	31	105	65	30	422	28	99	50	48	25	30	25
19	32	76	70	128	701	28	97	52	45	25	30	25
20	33	56	68	34	606	28	98	52	42	25	28	25
21	34	54	61	38	525	29	103	51	39	25	28	23
22	34	53	59	35	190	30	106	48	38	25	28	22
23	35	50	58	35	205	30	108	46	37	25	28	21
24	35	53	60	33	167	29	137	45	36	23	29	20
25	35	76	75	31	164	31	123	44	34	22	29	20
26	35	82	56	225	159	35	105	45	32	21	30	20
27	33	93	60	360	157	39	97	46	32	21	30	20
28	33	96	63	33	112	44	93	50	31	21	29	19
29	33	87	1390	32	---	48	86	56	30	22	28	19
30	37	75	1640	32	---	186	82	55	28	22	28	18
31	41	---	222	95	---	226	---	55	---	23	28	---
TOTAL	1215	1818	5321	3153	15767	1343	6890	1789	1427	782	852	738
MEAN	39.2	60.6	172	102	562	43.3	230	57.7	47.6	25.2	27.5	24.6
MAX	77	105	1640	360	4730	226	1850	83	70	28	30	28
MIN	27	39	47	29	30	28	54	44	28	21	22	18
CFSM	.22	.33	.95	.56	3.09	.24	1.26	.32	.26	.14	.15	.14
IN.	.25	.37	1.09	.64	3.22	.27	1.41	.37	.29	.16	.17	.15

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CAL YR 1980   TOTAL  83731   MEAN 229   MAX  4650   MIN 23   CFSM 1.26   IN 17.11
WTR YR 1981   TOTAL  41075   MEAN 113   MAX  4730   MIN 18   CFSM  .62   IN  8.40
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02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.

LOCATION.--Lat 32°40'17", long 83°36'11", Bibb-Twiggs County line, Hydrologic Unit 03070103, on right bank 0.8 mi (1.3 km) upstream from Echeconnee Creek, 4 mi (6.5 km) northeast of Warner Robins, and 5.7 mi (9.2 km) downstream from Tobesofkee Creek.

DRAINAGE AREA.--2,690 mi^2 (6,970 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year, discharge below 3,600 ft^3/s (102 m^3/s), only.

GAGE.--Water-stage recorder. Altitude of gage is 251 ft (76 m), from topographic map.

REMARKS.--Records good except those of doubtful gage-height record, May 19 to June 26, and no gage-height record, July 8-28, which are fair. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.07 ft (4.593 m) Feb. 25, 1979; minimum daily discharge, 397 ft^3/s (11.2 m^3/s) Sept. 28, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.97 ft (4.563 m) Feb. 12; minimum daily discharge, 397 ft^3/s (11.2 m^3/s) Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1690	848	1110	2060	1050	2120	---	999	1200	655	522	424
2	1850	807	1150	1590	1080	1550	---	1050	1080	610	568	489
3	1440	793	1110	1310	1170	1490	---	1070	1080	598	674	539
4	1220	802	1010	1110	1180	1420	---	1030	1130	613	666	611
5	1130	901	973	1020	1110	2060	---	1010	1170	661	610	633
6	1120	1120	957	1030	1130	3300	---	1060	1010	661	587	674
7	1120	1100	1060	1080	1140	3350	3600	1090	930	658	565	661
8	1190	1020	1090	1130	1140	2930	3350	1060	1270	640	592	630
9	1100	1040	1070	1060	1140	2630	2800	1070	1200	630	642	593
10	1090	1050	1100	983	1180	1910	1770	941	1250	610	688	562
11	1040	1060	1300	937	---	1380	1540	855	1040	600	682	539
12	856	913	1410	921	---	1290	1470	854	1000	590	827	530
13	760	874	1280	947	---	1410	1440	903	957	560	1020	533
14	749	878	1200	1060	---	1450	1400	903	930	540	898	567
15	742	879	1200	989	---	1420	1360	859	901	530	768	505
16	750	955	1160	915	---	1420	1310	831	881	520	688	499
17	777	1020	1190	895	---	1440	1270	1140	840	510	665	524
18	784	1000	1160	903	---	1420	1240	872	787	500	653	520
19	784	981	1080	912	---	1590	1230	780	750	550	648	512
20	787	1060	1060	908	---	2100	1220	780	728	490	643	501
21	784	1050	1040	930	---	2070	1250	760	720	530	634	493
22	760	1060	1030	955	---	1950	1320	740	700	580	629	492
23	784	1000	1010	937	---	2070	1350	720	680	530	565	491
24	789	951	1020	919	---	2180	1470	700	650	520	633	484
25	791	991	1060	919	3600	2070	1530	680	680	520	557	471
26	789	1070	1080	1050	3210	1580	1470	679	722	520	619	472
27	804	1170	1070	1060	2880	1410	1410	780	708	520	541	476
28	824	1160	1110	1110	2710	1320	1350	1270	689	510	586	397
29	876	1230	1140	1220	---	1270	1150	1690	682	495	580	402
30	893	1120	1040	1200	---	1310	1060	1190	661	510	591	432
31	868	---	1270	1120	---	2020	---	1150	---	509	500	---
TOTAL	29941	29903	34540	33180	---	56930	---	29516	27026	17470	20041	15656
MEAN	966	997	1114	1070	---	1836	---	952	901	564	646	522
MAX	1850	1230	1410	2060	---	3350	---	1690	1270	661	1020	674
MIN	742	793	957	895	---	1270	---	679	650	490	500	397

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1970 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1970 to current year.
pH: October 1971 to current year.
WATER TEMPERATURES: February 1970 to current year.
DISSOLVED OXYGEN: May 1970 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 260 micromhos Sept. 29, 1981; minimum recorded, 25 micromhos Jan. 7, 1974.
pH: Maximum recorded, 7.8 units Oct. 1, 1971; minimum recorded, 5.2 units Jan. 14, 1972.
WATER TEMPERATURE: Maximum, 34.5°C July 17, 1981; minimum, 1.0°C Jan. 19, 20, 1977.
DISSOLVED OXYGEN: Maximum recorded, 16.5 mg/L Mar. 12, 1970; minimum recorded, 0.0 mg/L June 8, 9, 1971, Sept. 17, 1980.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 260 micromhos Sept. 29; minimum, 49 micromhos Feb. 12.
pH: Maximum, 7.4 units Dec. 7-10; minimum, 6.2 units Feb. 12.
WATER TEMPERATURE: Maximum, 34.5°C July 17; minimum, 3.0°C Jan. 13.
DISSOLVED OXYGEN: Maximum, 11.8 mg/L Jan. 14, 15; minimum, 0.3 mg/L July 29, 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT									
22...	1030	703	135	130	7.2	7.2	17.0	19.5	5.9
NOV									
19...	1220	912	132	131	6.9	6.9	8.0	13.0	7.4
DEC									
10...	1400	1030	128	120	7.2	7.3	15.5	14.5	8.1
JAN									
14...	1330	941	125	118	7.2	7.2	10.5	5.0	11.7
FEB									
10...	0950	1080	117	111	7.3	7.3	9.5	9.0	10.1
MAR									
10...	1500	1690	92	90	6.9	7.3	18.0	13.0	9.1
APR									
07...	1500	1590	80	77	6.8	6.9	24.0	16.5	8.3
MAY									
26...	1500	679	146	140	7.1	7.3	22.5	25.5	4.8
JUN									
18...	0940	845	134	126	6.9	7.2	28.5	31.0	3.5
JUL									
21...	1430	575	181	169	6.7	7.2	35.5	32.0	2.9
AUG									
12...	1415	881	149	140	6.9	7.0	30.0	29.0	3.0
SEP									
09...	1400	575	162	153	6.6	7.0	30.0	29.0	3.1

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
22...	30	8	1.2	14	43000	36	19	.66	.360	.70	.260	5.0
NOV												
19...	30	6	1.1	15	23000	30	<1	.68	.470	.91	.240	4.5
DEC												
10...	20	7	1.4	14	230000	28	12	.62	.200	.50	.250	4.0
JAN												
14...	20	6	1.2	13	9300	26	4	.56	.390	.90	.240	5.0
FEB												
10...	20	10	1.9	15	2300	26	11	.85	.260	.80	.250	3.7
MAR												
10...	40	21	1.5	13	2300	20	19	.55	.180	.50	.130	2.5
APR												
07...	60	20	1.2	36	43000	18	21	.44	.270	.50	.180	14
MAY												
26...	40	8	1.7	--	930	34	5	.65	.240	.50	.220	5.0
JUN												
18...	30	8	1.7	15	5700	31	10	.64	.330	.80	.310	4.0
JUL												
21...	40	11	1.8	20	9300	38	10	.49	.550	1.10	.230	7.3
AUG												
12...	120	35	3.0	21	4300	34	57	.51	.370	1.11	.200	8.5
SEP												
09...	40	7	1.4	16	4300	35	7	.71	.600	1.30	.260	5.5

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	131	105	142	133	128	123	90	85	122	118	86	73
2	115	106	138	133	128	123	109	91	119	115	92	86
3	123	109	137	131	136	125	113	108	118	113	93	88
4	125	121	138	132	136	132	121	112	121	112	97	91
5	126	120	135	128	136	129	122	111	125	119	95	72
6	128	124	126	119	133	127	127	120	128	120	77	70
7	127	120	126	118	132	125	123	118	126	121	75	72
8	122	116	127	122	128	122	125	118	124	120	76	74
9	124	117	125	121	129	125	129	123	119	116	79	75
10	123	119	122	119	130	125	132	124	119	111	88	78
11	121	115	125	118	125	113	137	120	112	57	105	87
12	132	119	135	125	116	110	133	124	86	49	103	98
13	132	124	139	131	113	109	130	121	56	51	99	93
14	135	125	139	131	117	112	125	119	58	54	99	93
15	137	128	140	136	119	113	135	119	63	58	98	91
16	136	128	136	129	119	115	140	132	64	63	95	93
17	131	123	129	123	125	115	142	135	64	61	97	94
18	128	120	131	126	131	123	137	128	66	63	99	95
19	129	125	133	127	135	130	128	119	66	60	103	91
20	127	125	128	122	136	131	131	122	60	59	89	83
21	130	124	131	125	133	128	132	124	60	59	88	84
22	141	129	130	127	131	126	139	125	62	61	92	86
23	129	122	136	127	133	125	146	133	65	62	91	88
24	133	119	139	135	135	126	145	137	69	66	89	87
25	128	120	137	132	128	115	146	131	70	69	94	87
26	121	116	133	127	116	105	137	130	71	70	102	94
27	116	113	125	115	107	104	138	131	76	73	107	101
28	124	119	128	116	105	103	135	116	76	73	107	105
29	127	123	121	120	106	102	116	108	---	---	111	106
30	135	125	127	120	118	106	123	113	---	---	108	104
31	136	132	---	---	120	90	124	119	---	---	108	96
MONTH	141	104	142	115	136	90	146	85	128	49	111	70

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	95	76	117	108	120	113	140	135	211	196	225	182
2	76	61	115	111	122	116	170	144	196	181	222	185
3	68	65	117	109	122	116	169	153	179	152	185	171
4	76	68	120	113	122	107	153	138	172	155	175	158
5	78	75	123	117	121	116	143	129	183	168	169	158
6	78	75	124	117	135	112	140	129	205	176	158	151
7	83	76	126	113	136	116	140	131	204	189	155	148
8	81	70	126	119	123	106	148	142	205	189	164	151
9	89	80	120	113	125	107	155	141	196	170	168	160
10	99	90	141	120	117	106	152	140	189	161	176	162
11	101	94	139	130	128	116	146	136	196	189	187	165
12	101	98	142	127	132	124	150	139	196	127	192	176
13	99	95	141	136	132	119	165	141	145	130	192	180
14	99	94	140	120	128	121	166	154	156	137	179	163
15	100	95	145	136	128	120	168	158	163	155	198	180
16	105	98	150	136	135	122	176	153	178	160	203	191
17	107	100	144	104	139	125	175	165	175	164	195	189
18	103	99	130	116	154	132	173	160	188	164	201	192
19	103	99	142	131	155	136	170	151	186	150	200	188
20	102	98	142	132	155	146	179	166	172	161	204	189
21	104	100	139	125	151	139	177	159	172	167	194	178
22	106	99	141	129	149	133	188	169	178	167	185	178
23	108	94	144	129	149	136	190	180	190	176	195	185
24	103	98	144	132	144	137	206	188	173	154	195	185
25	101	95	147	135	149	141	215	194	168	160	202	182
26	98	96	152	139	144	131	210	182	168	154	206	191
27	98	96	157	141	141	133	196	177	190	169	197	184
28	101	95	136	90	141	136	189	176	187	165	250	199
29	111	100	103	96	139	130	205	185	177	150	260	210
30	113	107	124	104	145	130	215	196	177	162	214	203
31	---	---	121	116	---	---	209	192	182	165	---	---
MONTH	113	61	157	90	155	106	215	129	211	127	260	148
YEAR	260	49										

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.—Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.2	7.0	7.2	7.1	7.3	7.2	6.9	6.7	7.3	7.1	6.9	6.9
2	7.2	7.1	7.2	7.2	7.3	7.2	7.0	6.9	7.3	7.2	7.0	6.9
3	7.2	7.1	7.3	7.2	7.3	7.3	7.1	7.0	7.1	7.1	7.0	6.9
4	7.2	7.2	7.2	7.2	7.3	7.2	7.1	7.0	7.2	7.0	6.9	6.9
5	7.2	7.2	7.2	7.2	7.3	7.3	7.0	7.0	7.2	7.1	6.9	6.9
6	7.2	7.2	7.2	7.2	7.3	7.2	7.2	6.9	7.2	7.2	6.9	6.8
7	7.2	7.2	7.2	7.2	7.4	7.3	7.2	7.2	7.2	7.2	6.9	6.8
8	7.2	7.2	7.2	7.2	7.4	7.3	7.2	7.1	7.3	7.2	6.9	6.8
9	7.2	7.2	7.2	7.2	7.4	7.3	7.2	7.1	7.3	7.2	7.0	6.9
10	7.2	7.2	7.2	7.2	7.4	7.2	7.2	7.2	7.3	7.2	7.0	6.9
11	7.2	7.1	7.2	7.2	7.3	7.1	7.3	7.2	7.2	6.4	7.0	6.9
12	7.2	7.1	7.2	7.1	7.2	7.2	7.2	7.2	6.4	6.2	7.0	6.9
13	7.2	7.1	7.2	7.1	7.2	7.1	7.2	7.1	6.4	6.3	7.0	7.0
14	7.2	7.2	7.2	7.1	7.2	7.1	7.3	7.1	6.6	6.4	7.0	7.0
15	7.2	7.2	7.2	7.2	7.2	7.2	7.3	7.2	6.7	6.5	7.1	7.0
16	7.2	7.2	7.2	7.2	7.2	7.2	7.3	7.2	6.7	6.6	7.1	7.0
17	7.2	7.1	7.1	7.1	7.2	7.2	7.2	7.2	6.7	6.7	7.0	6.8
18	7.2	7.1	7.1	7.0	7.2	7.1	7.2	7.1	6.8	6.7	6.9	6.8
19	7.2	7.2	7.0	6.9	7.2	7.1	7.3	7.2	6.8	6.7	6.9	6.8
20	7.2	7.2	7.0	7.0	7.2	7.2	7.3	6.9	6.7	6.6	6.9	6.9
21	7.2	7.2	7.1	7.0	7.2	7.1	7.2	7.1	6.8	6.6	6.9	6.9
22	7.2	7.2	7.1	7.1	7.1	7.1	7.1	7.1	6.8	6.7	6.9	6.9
23	7.2	7.1	7.1	7.1	7.3	7.1	7.2	7.1	6.8	6.7	6.9	6.9
24	7.2	7.1	7.2	7.1	7.3	7.3	7.2	7.1	6.9	6.8	6.9	6.9
25	7.2	7.1	7.2	7.1	7.3	7.2	7.3	7.1	6.9	6.8	7.0	6.9
26	7.2	7.1	7.2	7.2	7.2	7.2	7.3	7.2	6.9	6.8	7.0	6.9
27	7.2	7.2	7.2	7.2	7.2	7.2	7.3	7.3	7.0	6.9	6.9	6.9
28	7.2	7.2	7.2	7.2	7.3	7.2	7.3	7.2	7.0	6.9	6.9	6.8
29	7.2	7.2	7.2	7.2	7.3	7.3	7.2	7.0	---	---	6.9	6.8
30	7.2	7.1	7.2	7.2	7.3	7.2	7.1	7.1	---	---	6.8	6.8
31	7.2	7.2	---	---	7.2	6.8	7.2	7.1	---	---	6.9	6.8
MONTH	7.2	7.0	7.3	6.9	7.4	6.8	7.3	6.7	7.3	6.2	7.1	6.8

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.0	6.7	6.8	6.7	7.0	7.0	6.8	6.7	7.0	7.0	6.9	6.8
2	6.8	6.5	6.9	6.8	7.0	7.0	6.7	6.6	7.1	7.1	6.9	6.8
3	6.7	6.6	6.9	6.9	7.0	6.9	6.6	6.6	7.0	6.9	6.8	6.8
4	6.8	6.7	6.9	6.9	7.0	6.9	6.6	6.5	6.9	6.8	6.8	6.7
5	6.9	6.8	6.9	6.9	6.9	6.9	6.6	6.5	7.0	6.8	6.7	6.6
6	6.9	6.9	6.9	6.9	7.0	6.9	6.6	6.5	7.0	7.0	6.7	6.6
7	7.0	6.9	6.9	6.9	7.0	6.9	6.7	6.5	7.1	7.0	6.7	6.6
8	7.0	7.0	6.9	6.9	7.0	6.8	6.8	6.7	7.1	7.0	6.7	6.5
9	7.0	6.9	6.9	6.9	7.0	6.9	6.8	6.7	7.0	6.9	6.7	6.6
10	6.9	6.9	6.9	6.8	7.0	6.9	6.8	6.7	7.0	6.9	6.8	6.7
11	6.7	6.7	6.9	6.8	7.0	6.9	6.7	6.6	7.0	7.0	6.8	6.7
12	6.9	6.3	6.9	6.8	7.0	6.9	6.8	6.7	7.1	6.7	6.8	6.7
13	7.1	6.4	6.9	6.8	7.0	6.8	6.8	6.8	6.8	6.8	6.8	6.7
14	6.8	6.5	6.9	6.8	6.9	6.8	6.9	6.8	6.8	6.8	6.8	6.8
15	6.9	6.7	6.9	6.9	6.9	6.9	6.9	6.8	6.9	6.8	6.9	6.8
16	6.8	6.6	6.9	6.9	7.0	6.9	6.8	6.7	6.9	6.9	6.9	6.8
17	6.7	6.6	7.0	6.9	6.9	6.9	6.8	6.8	7.0	6.9	6.9	6.8
18	6.6	6.4	7.0	6.9	7.0	6.9	6.8	6.7	7.1	6.9	6.9	6.8
19	6.8	6.5	7.0	6.9	7.0	6.9	6.8	6.7	7.1	7.0	6.9	6.8
20	6.8	6.6	7.0	6.9	6.9	6.9	6.8	6.7	7.0	7.0	6.9	6.8
21	7.0	6.7	7.0	6.9	6.9	6.8	6.7	6.6	7.1	7.0	6.9	6.8
22	7.0	6.6	7.0	6.9	6.8	6.8	6.9	6.7	7.0	6.9	7.0	6.8
23	7.0	6.8	6.9	6.9	6.8	6.7	6.9	6.9	7.0	6.9	7.0	6.8
24	7.0	6.8	6.9	6.9	6.8	6.7	7.0	6.9	7.0	6.8	7.0	7.0
25	6.8	6.8	7.0	6.9	6.8	6.7	7.0	7.0	6.9	6.7	7.0	7.0
26	6.8	6.8	7.0	6.9	6.8	6.7	7.0	6.9	6.8	6.7	7.1	7.0
27	6.8	6.8	7.0	7.0	6.8	6.7	7.0	6.9	6.9	6.9	7.1	7.0
28	6.7	6.7	7.0	7.0	6.8	6.8	7.0	6.9	6.9	6.9	7.0	6.9
29	6.8	6.6	7.0	7.0	6.9	6.7	7.1	7.0	6.9	6.9	7.0	6.9
30	6.8	6.8	7.0	7.0	6.8	6.7	7.1	7.1	6.9	6.9	7.1	7.0
31	---	---	7.0	7.0	---	---	7.1	7.0	7.0	6.9	---	---
MONTH	7.1	6.3	7.0	6.7	7.0	6.7	7.1	6.5	7.1	6.7	7.1	6.5
YEAR	7.4	6.2										

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.5	21.0	16.0	14.5	11.0	9.5	9.5	8.0	9.5	7.0	14.0	12.5
2	22.5	21.0	16.5	14.5	12.0	10.0	9.0	8.5	10.5	9.5	15.5	14.0
3	23.0	22.5	17.0	15.5	12.5	11.5	8.5	7.5	9.5	6.5	15.0	14.0
4	22.5	21.5	16.5	16.5	11.5	11.0	8.5	7.5	7.0	5.5	14.5	13.5
5	22.0	21.0	18.0	17.0	11.0	10.0	8.5	6.0	7.5	5.5	14.0	13.0
6	21.0	20.5	17.0	16.0	11.5	10.0	7.0	5.5	7.0	6.5	13.0	12.0
7	20.5	19.5	16.0	15.0	11.5	10.5	8.5	7.0	7.5	6.5	13.0	12.0
8	21.0	19.0	17.0	15.0	12.0	10.5	8.0	7.0	9.5	7.5	13.0	12.0
9	21.5	19.5	17.5	16.0	14.0	11.5	7.5	6.5	9.5	8.0	13.0	12.0
10	22.5	20.5	18.0	17.0	14.5	13.5	7.5	6.0	10.0	8.0	13.0	12.0
11	23.0	21.5	17.5	17.0	14.0	12.0	7.0	5.5	10.5	8.5	14.0	12.5
12	22.5	21.0	17.0	15.5	12.0	10.5	6.0	4.5	8.0	5.0	14.0	12.5
13	21.5	19.0	16.0	14.0	11.0	10.0	5.0	3.0	5.0	4.0	14.0	13.0
14	20.0	17.5	16.0	14.5	11.0	10.0	6.0	4.0	6.5	5.0	14.0	13.0
15	20.0	17.5	17.5	16.0	10.5	9.5	8.5	5.0	7.5	6.0	14.5	13.0
16	20.5	18.5	17.0	16.5	11.5	10.0	9.0	7.5	9.0	7.5	15.0	13.5
17	21.5	20.0	17.0	15.0	11.0	10.5	8.0	6.5	9.5	9.0	14.0	13.5
18	22.5	21.5	15.0	13.5	10.5	9.5	6.5	4.5	11.5	9.5	14.5	13.5
19	23.5	22.5	13.5	12.5	11.5	10.0	7.0	4.5	13.0	12.0	14.0	13.0
20	23.5	22.0	12.5	12.0	11.5	10.5	9.0	6.0	13.0	12.0	13.0	12.5
21	22.5	20.0	12.0	11.5	11.0	9.5	9.5	8.0	12.0	11.0	13.5	12.5
22	21.0	19.0	12.0	11.0	9.5	8.0	10.0	9.5	11.5	11.0	13.0	13.0
23	19.5	18.5	13.0	11.5	9.0	7.5	10.0	9.5	12.0	11.0	12.5	12.0
24	18.5	17.0	15.0	13.0	9.5	8.5	11.0	9.0	12.0	11.0	13.0	12.0
25	17.5	16.5	15.0	14.5	9.5	7.5	11.0	8.5	11.5	10.5	13.0	12.0
26	16.5	15.5	14.5	13.0	7.5	6.5	10.5	9.0	12.0	10.0	14.5	13.0
27	16.5	14.5	13.5	13.0	6.5	6.0	12.5	9.5	12.5	11.5	16.0	14.0
28	16.5	16.0	13.0	11.5	8.0	6.5	13.0	11.5	13.0	11.5	17.0	15.0
29	17.0	16.5	11.0	10.5	10.5	8.0	12.0	10.0	---	---	17.0	15.5
30	17.0	16.5	11.0	10.0	12.0	10.5	10.0	9.0	---	---	18.0	16.5
31	16.5	15.5	---	---	11.5	9.5	8.5	7.0	---	---	18.0	17.0
MONTH	23.5	14.5	18.5	10.0	14.5	6.0	13.0	3.0	13.0	4.0	18.0	12.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.5	17.0	25.0	24.0	27.5	26.5	29.5	28.0	27.0	26.5	29.0	27.5
2	17.5	16.5	23.5	22.5	27.5	26.5	28.0	27.0	27.5	26.0	28.5	27.5
3	17.5	16.5	23.0	21.5	28.5	26.5	27.5	26.5	28.5	26.5	28.5	27.0
4	17.5	17.0	23.0	21.0	29.0	27.5	28.5	26.0	30.5	27.5	28.5	27.0
5	18.0	17.0	23.5	21.5	29.5	28.0	29.5	27.5	32.0	29.0	28.5	27.5
6	17.0	16.0	23.5	22.5	29.5	28.5	29.5	27.5	32.5	30.0	28.5	27.5
7	16.5	15.5	22.5	21.0	30.0	27.5	30.5	28.0	32.0	30.0	29.5	27.0
8	17.5	16.0	21.5	20.0	28.5	27.0	32.0	29.0	31.0	29.5	29.5	27.5
9	19.0	17.5	22.5	20.5	30.0	27.5	33.0	30.5	30.0	29.0	29.5	27.5
10	20.0	18.5	22.0	21.0	30.5	29.0	33.0	31.0	30.0	28.0	29.5	27.0
11	21.0	19.5	22.0	21.0	31.0	29.5	33.0	31.0	31.0	28.5	29.0	27.0
12	22.0	20.5	22.0	20.0	29.5	29.0	33.5	31.0	29.5	28.0	29.0	27.0
13	22.5	21.0	23.5	20.5	29.5	27.5	33.0	31.0	30.0	28.5	29.0	26.5
14	23.5	22.0	24.0	21.5	31.0	29.0	33.0	31.0	30.0	28.5	28.5	27.0
15	23.5	22.5	24.5	23.0	31.0	29.0	33.0	31.0	31.5	29.5	29.0	26.5
16	22.5	22.0	24.0	22.5	31.5	29.5	34.0	30.5	31.5	30.0	28.5	27.0
17	22.5	21.5	23.0	22.0	32.0	30.5	34.5	32.0	32.0	30.5	27.5	26.0
18	22.5	21.0	25.0	22.0	32.5	30.5	34.0	31.5	30.5	28.5	25.5	23.5
19	23.5	22.0	24.5	24.0	32.5	30.5	33.5	31.5	28.5	27.0	23.5	21.5
20	23.5	22.5	24.5	23.5	33.0	30.5	33.0	30.5	27.0	26.0	23.0	20.5
21	22.5	20.5	24.5	22.5	33.0	31.0	32.0	30.0	26.5	26.0	23.5	21.0
22	20.5	19.5	25.0	22.0	33.5	31.0	33.5	30.0	26.5	25.0	23.5	21.0
23	21.0	19.5	26.0	23.0	33.5	31.0	33.5	30.5	26.0	25.5	26.0	23.5
24	22.5	20.5	26.5	24.0	33.0	31.0	33.5	30.5	27.0	25.0	26.5	24.0
25	21.5	20.5	27.0	25.0	32.5	30.5	33.0	31.0	28.5	25.5	26.5	24.0
26	21.5	20.5	26.5	24.5	32.0	30.5	33.0	31.0	29.0	27.0	26.0	23.5
27	22.5	20.5	25.5	24.0	31.5	30.0	32.5	30.5	28.5	26.5	26.0	24.0
28	24.0	21.5	26.0	24.5	31.0	29.0	33.5	30.5	28.0	27.0	26.5	24.0
29	24.0	22.5	24.5	23.5	30.0	28.5	32.5	31.0	28.0	27.0	26.5	24.0
30	25.0	23.5	26.5	24.0	30.0	27.5	31.5	29.5	28.5	27.0	27.5	24.5
31	---	---	27.5	25.5	---	---	29.5	27.5	29.5	27.5	---	---
MONTH	25.0	15.5	27.5	20.0	33.5	26.5	34.5	26.0	32.5	25.0	29.5	20.5
YEAR	34.5	3.0										

02213700 OCHULGEE RIVER NEAR WARNER ROBINS, GA.—Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.3	5.8	7.3	6.9	9.9	9.6	9.8	9.1	10.4	10.0	9.0	7.8
2	7.2	6.1	7.6	7.1	9.9	9.3	10.3	9.8	10.0	9.4	7.8	7.4
3	6.4	5.4	7.5	7.1	9.4	8.7	10.5	10.3	10.6	9.4	7.8	7.5
4	6.1	5.6	7.4	6.3	9.0	8.7	10.5	9.8	10.8	10.6	8.0	7.7
5	6.2	5.8	6.8	6.3	9.0	8.2	10.6	9.8	10.9	10.6	9.0	7.8
6	6.6	6.2	7.7	7.0	8.9	7.7	10.8	10.5	11.0	10.8	9.3	9.1
7	6.7	6.0	8.0	7.6	9.4	8.4	10.7	10.1	11.0	10.5	9.3	9.2
8	6.9	6.2	8.0	7.3	9.5	9.1	10.5	10.1	10.5	10.1	9.5	9.3
9	6.5	5.5	7.8	7.4	9.2	8.5	10.5	10.3	10.5	10.1	9.7	9.6
10	6.1	5.3	7.7	7.4	8.5	8.0	10.7	10.5	10.5	9.9	9.7	8.4
11	5.9	4.8	7.7	7.1	8.9	7.9	10.8	10.5	10.0	9.0	8.5	7.9
12	5.5	4.6	7.5	7.1	9.3	9.0	11.3	10.8	10.7	8.8	8.4	8.0
13	5.9	4.7	7.8	7.2	9.4	7.2	11.7	11.4	11.0	10.7	8.7	8.3
14	6.5	5.6	8.0	7.0	9.6	9.2	11.8	10.3	11.0	10.7	8.7	8.2
15	6.2	5.7	7.3	6.4	9.7	9.6	11.8	10.5	10.7	10.5	8.6	8.2
16	6.5	5.6	7.1	6.4	9.7	9.2	10.5	10.5	10.4	10.2	8.6	8.2
17	6.2	5.1	7.4	7.0	9.4	9.0	10.5	10.2	10.1	9.8	8.4	8.2
18	5.7	5.2	7.5	7.3	9.4	9.3	10.8	10.4	9.8	9.3	8.5	7.8
19	5.3	4.9	8.1	7.4	9.5	9.2	11.0	10.8	9.2	8.4	8.6	7.8
20	5.7	5.1	8.9	8.3	9.5	9.1	10.9	9.8	8.8	8.4	9.3	8.7
21	6.3	5.6	9.1	8.6	9.5	9.2	10.2	9.3	9.2	8.8	9.3	9.1
22	6.3	5.6	9.4	9.1	10.2	9.6	9.5	9.2	9.2	9.1	9.3	9.1
23	6.4	5.9	9.4	6.7	10.3	10.1	9.3	9.2	9.1	8.8	9.5	8.9
24	6.6	5.9	8.8	8.1	10.2	9.8	9.5	9.1	9.0	8.8	9.5	9.3
25	6.8	6.1	8.3	8.1	10.3	9.9	9.7	9.3	9.4	9.0	9.6	9.2
26	7.4	6.6	8.6	8.0	11.0	10.3	10.2	9.8	9.5	9.2	9.2	8.1
27	8.1	7.4	8.4	7.8	11.3	11.0	10.2	9.4	9.2	8.9	8.3	7.5
28	8.0	6.8	8.9	8.0	11.3	10.9	9.7	9.1	9.1	9.0	7.8	7.0
29	6.9	6.3	9.4	9.0	10.9	10.2	9.6	9.2	---	---	7.3	6.8
30	7.0	6.4	9.7	9.4	10.2	9.2	9.8	9.3	---	---	7.2	6.6
31	6.8	6.6	---	---	9.4	8.4	10.3	9.8	---	---	7.2	6.2
MONTH	8.1	4.6	9.7	6.3	11.3	7.2	11.8	9.1	11.0	8.4	9.7	6.2
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.2	7.3	5.1	4.7	5.3	4.9	5.6	4.6	3.3	2.7	3.4	2.4
2	7.4	6.8	5.7	5.0	5.5	4.6	4.5	3.0	3.7	3.2	3.1	2.5
3	7.5	7.1	6.0	5.7	5.1	3.6	3.7	2.8	4.1	3.5	3.5	2.9
4	7.6	7.5	6.4	6.1	5.0	4.1	3.9	3.4	4.0	2.9	3.7	3.0
5	7.8	7.5	6.5	5.7	4.7	4.1	4.1	3.8	3.3	2.5	3.5	3.0
6	8.3	7.8	6.1	5.5	4.6	4.0	4.3	3.7	2.9	2.2	4.0	3.3
7	8.4	8.2	6.0	5.8	4.9	4.1	4.0	2.9	3.0	2.2	4.2	3.7
8	8.3	8.1	6.3	6.0	4.9	4.0	3.5	2.9	2.7	2.1	4.1	2.9
9	8.1	7.0	6.6	6.1	4.7	4.1	3.1	1.3	2.9	2.2	3.6	2.9
10	7.0	6.4	6.3	5.4	4.7	4.4	2.7	1.9	3.3	2.7	3.5	2.7
11	6.5	5.9	5.9	5.5	4.5	3.9	2.9	2.6	3.4	2.4	3.5	2.7
12	6.1	5.6	6.5	5.9	4.5	3.8	3.4	2.9	3.5	2.5	3.3	2.7
13	6.0	5.7	6.4	5.7	4.4	3.3	3.6	3.2	4.0	3.5	3.4	2.8
14	5.9	5.3	6.3	5.1	4.0	3.6	3.8	3.0	4.1	3.3	3.9	3.4
15	5.6	5.0	5.7	5.0	4.2	3.9	3.5	3.0	3.6	3.0	3.6	2.8
16	5.9	5.5	5.6	4.9	4.2	3.4	3.4	2.7	3.3	2.7	2.9	2.4
17	6.0	5.5	6.5	5.1	3.8	3.3	3.1	2.7	3.2	2.7	2.9	2.4
18	6.0	5.7	6.3	5.2	3.6	2.8	3.0	2.6	3.3	2.9	3.6	2.7
19	6.0	5.7	5.4	4.7	3.3	2.6	3.3	2.7	3.8	3.5	4.5	3.3
20	6.0	5.7	5.1	4.7	3.1	2.7	3.9	3.2	4.3	3.9	5.0	3.9
21	5.9	5.4	5.4	4.2	3.3	2.8	3.6	1.9	4.4	3.7	5.1	4.5
22	6.5	5.9	5.2	4.3	3.7	3.1	3.0	2.4	4.6	3.7	5.0	4.4
23	6.7	6.3	4.9	4.1	4.0	3.3	3.0	2.5	4.2	3.8	4.6	4.4
24	6.6	5.7	4.9	4.2	4.1	3.4	3.1	2.3	5.1	4.4	4.7	4.2
25	6.5	6.1	4.8	4.3	4.3	3.5	3.0	2.5	4.8	3.4	4.5	3.8
26	6.7	6.3	4.9	4.4	4.9	4.0	3.1	2.6	4.3	3.5	4.5	3.9
27	6.8	6.4	5.1	4.4	5.2	4.0	3.3	2.9	3.7	2.7	4.8	4.2
28	6.7	5.6	5.7	4.8	5.2	4.2	3.5	2.7	3.9	2.9	4.3	3.0
29	6.0	4.9	6.0	5.5	6.2	4.7	2.8	.3	3.8	3.2	4.2	3.1
30	5.5	4.7	5.7	5.0	5.8	5.0	2.1	.3	3.7	3.2	4.0	3.3
31	---	---	5.2	4.7	---	---	2.6	1.4	3.5	2.9	---	---
MONTH	8.4	4.7	6.6	4.1	6.2	2.6	5.6	.3	5.1	2.1	5.1	2.4
YEAR	11.8	.3										

02214265 OCMULGEE RIVER NEAR BONAIRE, GA.

LOCATION.--Lat 32°32'33", long 83°32'13", Houston-Twiggs County line, Hydrologic Unit 03070104, at bridge on State Highway 96, 0.4 mi (0.6 km) downstream from Flat Creek and 3.5 mi (5.6 km) east of Bonaire.
PERIOD OF RECORD.--August 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 21...	0800	978	7.0	7.3	11.0	19.0	7.1
NOV 17...	0800	1160	--	7.1	12.0	16.0	7.3
DEC 15...	0845	1630	7.1	6.9	1.0	9.0	9.3
JAN 19...	1500	1060	--	7.0	19.0	7.0	11.2
FEB 23...	1435	9100	--	6.5	20.5	13.5	6.8
MAR 16...	1415	1910	--	7.0	21.5	14.5	8.0
APR 20...	1450	1680	6.5	6.9	30.0	23.0	5.0
MAY 18...	1235	1220	6.5	7.0	31.0	23.0	6.2
JUN 15...	1320	1230	--	7.2	34.5	29.0	5.1
JUL 20...	1245	625	7.1	7.3	35.0	28.0	6.0
AUG 17...	1350	838	6.8	7.0	34.0	27.5	5.1
SEP 21...	1350	580	7.2	7.1	31.0	18.5	8.2

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	106	20	8	1.1	9300	23	.63	.140	.190	3.0
NOV 17...	113	30	9	1.3	5400	32	.60	.170	.200	4.0
DEC 15...	100	45	9	1.1	430	21	.20	.020	.170	2.0
JAN 19...	109	30	11	1.9	2300	25	.51	.270	.210	4.0
FEB 23...	58	125	50	1.2	<30	10	.25	.020	.100	5.0
MAR 16...	97	40	16	.9	750	20	.54	.190	.150	2.0
APR 20...	89	40	15	.9	5400	24	.53	.140	.180	4.0
MAY 18...	99	40	10	1.4	3300	27	.44	.060	.150	4.0
JUN 15...	105	50	12	1.8	2100	29	.69	.180	.220	4.0
JUL 20...	137	40	5	1.1	230	33	.71	.110	.200	3.5
AUG 17...	140	50	12	1.0	930	31	.78	.170	.220	7.0
SEP 21...	153	20	5	1.3	210	34	.67	.140	.240	3.5

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.

LOCATION.--Lat 31°55'06", long 82°40'26", Telfair-Jeff Davis County line, Hydrologic Unit 03070104, near left bank on downstream end of pier of bridge on U.S. Highway 341 at Lumber City, 500 ft (152 m) downstream from Southern Railway bridge, 1 mi (1.6 km) upstream from Little Ocmulgee River, and 12 mi (19.3 km) upstream from confluence with Oconee River.
DRAINAGE AREA.—5,180 mi^2 (13,400 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1936 to current year. Gage-height records collected at same site since 1908 are contained in reports of National Weather Service.
REVISED RECORDS.--WSP 1504: 1937.
GAGE.—Water-stage recorder. Datum of gage is 87.48 ft (26.664 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1937, nonrecording gage at same site and datum.
REMARKS.--Records good. Flow regulated by Lloyds Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.)
AVERAGE DISCHARGE.--45 years, 5,596 ft^3/s (158 m^3/s), 14.67 in/yr (373 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 70,000 ft^3/s (1,980 m^3/s) Dec. 8, 1948; maximum gage height, 22.7 ft (6.92 m) Dec. 9, 1948; minimum discharge, 800 ft^3/s (22.7 m^3/s) Oct. 30 to Nov. 3, 1954.
EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum discharge known since at least 1841, 98,400 ft^3/s (2,790 m^3/s) Jan. 21, 1925, from rating extended above 67,000 ft^3/s (1,900 m^3/s) on basis of records of peak flow for stations on Ocmulgee, Oconee, and Altamaha Rivers; maximum stage known, 26.3 ft (8.02 m) Jan. 21, 1925, backwater from Oconee River.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 15,000 ft^3/s (425 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 24	0500	*17800	504	13.39	4.081
Apr. 9	2100	15800	447	12.73	3.880

Minimum discharge, 1,030 ft^3/s (29.2 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	1590	1930	1900	1880	9000	3940	2950	1680	1340	1200	1280
2	1480	1640	1980	1920	1990	8540	5580	2800	1960	1350	1200	1270
3	1530	1700	2000	1890	2040	8120	6930	2600	1960	1370	1170	1260
4	1720	1730	1980	1990	2000	7460	8300	2430	1860	1330	1220	1230
5	2060	1710	1940	2240	1940	6750	9110	2300	1830	1310	1250	1180
6	2360	1660	1930	2310	1940	5690	10300	2240	1830	1300	1290	1160
7	2430	1610	1910	2200	2020	4560	11900	2300	1880	1300	1340	1200
8	2280	1590	1860	2050	2060	4020	14100	2290	1970	1290	1380	1260
9	2110	1610	1800	1930	2040	4030	15600	2260	2000	1300	1400	1330
10	1980	1710	1770	1890	2030	4240	15400	2230	1900	1340	1340	1370
11	1910	1780	1790	1930	2160	4450	14400	2220	1850	1340	1390	1360
12	1890	1770	1840	1970	2260	4590	13000	2190	2000	1310	1570	1310
13	1860	1750	1850	1950	2430	4630	11600	2150	2160	1280	1670	1270
14	1810	1760	1880	1870	2900	4420	9790	2060	2220	1260	1670	1230
15	1770	1770	1990	1810	3450	3830	8010	1940	2230	1240	1620	1200
16	1690	1720	2110	1750	4030	3310	6040	1870	2330	1240	1640	1180
17	1600	1650	2130	1740	4530	3110	4550	1850	2290	1210	1770	1170
18	1530	1620	2080	1770	5180	3060	3890	1820	2110	1190	1800	1160
19	1490	1600	2050	1770	6170	3080	3550	1770	1940	1220	1690	1140
20	1470	1630	2010	1720	7670	3120	3330	1740	1790	1190	1570	1120
21	1450	1680	2000	1690	9940	3150	3200	1810	1700	1170	1490	1110
22	1450	1700	1990	1670	13600	3240	3110	1770	1610	1150	1430	1110
23	1450	1710	1970	1660	16900	3540	3050	1660	1540	1150	1480	1100
24	1460	1740	1940	1650	17600	3880	3030	1600	1480	1140	1520	1090
25	1460	1760	1900	1670	16400	4060	3050	1570	1430	1190	1460	1080
26	1450	1780	1860	1690	14000	4110	3060	1540	1380	1230	1420	1070
27	1460	1790	1840	1690	11600	4110	3080	1520	1350	1180	1390	1060
28	1480	1770	1840	1700	9890	4090	3140	1510	1340	1150	1380	1050
29	1510	1790	1860	1700	---	3980	3150	1480	1330	1140	1350	1040
30	1550	1850	1880	1770	---	3770	3070	1450	1340	1160	1330	1040
31	1570	---	1880	1830	---	3650	---	1470	---	1170	1310	---
TOTAL	52760	51170	59790	57320	170650	141590	210260	61390	54290	38540	44740	35430
MEAN	1702	1706	1929	1849	6095	4567	7009	1980	1810	1243	1443	1181
MAX	2430	1850	2130	2310	17600	9000	15600	2950	2330	1370	1800	1370
MIN	1450	1590	1770	1650	1880	3060	3030	1450	1330	1140	1170	1040
CFSM	.33	.33	.37	.36	1.18	.88	1.35	.38	.35	.24	.28	.23
IN.	.38	.37	.43	.41	1.23	1.02	1.51	.44	.39	.28	.32	.25

CAL YR 1980 TOTAL 2074130 MEAN 5667 MAX 41800 MIN 1400 CFSM 1.09 IN 14.90
WTR YR 1981 TOTAL 977930 MEAN 2679 MAX 17600 MIN 1040 CFSM .52 IN 7.02

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
22...	0815	1450	7.1	7.6	14.0	20.0	6.8
NOV							
17...	1445	1630	7.2	7.7	12.5	16.5	8.9
DEC							
15...	1500	2060	7.0	7.4	17.5	12.0	10.3
JAN							
22...	1050	1670	7.5	7.7	9.5	8.0	10.0
FEB							
19...	1055	6100	--	6.5	22.0	11.0	8.7
MAR							
19...	1030	3070	--	7.4	8.5	14.0	8.7
APR							
23...	1000	3050	--	7.5	24.0	21.5	7.4
MAY							
21...	0850	1800	--	7.8	17.0	23.0	3.8
JUN							
18...	1025	2110	--	7.6	35.0	30.0	5.6
JUL							
23...	1000	1150	8.3	8.1	31.0	29.0	7.7
AUG							
20...	1030	1580	7.6	7.6	27.0	23.0	6.4
SEP							
24...	1000	1090	7.9	7.6	26.0	21.0	7.4

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT							
22...	140	20	8	14	1.5	<30	49
NOV							
17...	127	20	6	7	.4	40	42
DEC							
15...	141	20	5	7	2.8	<30	33
JAN							
22...	125	10	7	6	.6	40	42
FEB							
19...	64	240	78	28	2.1	<30	8.0
MAR							
19...	109	40	16	12	.5	<30	33
APR							
23...	109	50	15	10	.4	40	39
MAY							
21...	140	30	11	8	.9	<30	50
JUN							
18...	117	50	21	12	.8	<30	35
JUL							
23...	150	10	8	--	3.3	<30	53
AUG							
20...	139	30	18	--	.8	150	37
SEP							
24...	177	10	5	--	.6	30	54

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT						
22...	4	.61	.030	.21	.100	2.0
NOV						
17...	6	.59	<.020	.20	.080	<1.0
DEC						
15...	5	.54	.020	.10	.090	1.0
JAN						
22...	7	.58	.070	.10	.080	2.0
FEB						
19...	42	.32	.040	.40	.190	9.0
MAR						
19...	21	.40	.040	.30	.080	2.0
APR						
23...	30	.51	<.020	.30	.100	10
MAY						
21...	22	.56	.020	.40	.100	2.0
JUN						
18...	19	.48	.020	.30	.130	4.0
JUL						
23...	16	.12	.020	--	.050	2.0
AUG						
20...	26	.71	.060	--	.120	2.5
SEP						
24...	5	.46	.060	--	.080	1.6

02216100 ALLIGATOR CREEK NEAR ALAMO, GA.

LOCATION.--Lat 32°01'35", long 82°41'44", Wheeler County, Hydrologic Unit 03070105, at bridge on State Route 134, 1.7 mi (2.7 km) west of Jordan, 6.5 mi (10.5 km) upstream of Little Ocmulgee River, and 9.5 mi (15.3 km) southeast of Alamo.

DRAINAGE AREA.--255 mi^2 (660 km^2).

PERIOD OF RECORD.--July 1979 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 21...	1430	1.3	6.5	6.8	24.0	19.0	7.8
NOV 17...	1400	2.1	--	6.5	12.0	15.5	8.0
DEC 15...	1445	1.5	6.1	6.5	17.0	11.0	10.8
JAN 22...	1030	1.9	6.2	6.6	8.5	8.0	10.5
FEB 19...	1025	7.2	--	6.0	19.0	15.0	9.6
MAR 19...	1000	27	5.1	5.6	7.5	11.5	9.3
APR 23...	0935	140	--	5.6	22.0	18.0	7.8
MAY 21...	0825	5.1	--	7.9	16.0	18.5	5.7
JUN 18...	1000	2.5	--	6.4	34.0	25.5	6.1
JUL 23...	0915	1.9	6.5	6.6	29.0	29.5	5.7
AUG 20...	1005	1.8	6.5	6.4	24.5	20.5	6.8
SEP 24...	0930	1.9	6.6	6.3	24.0	18.0	6.5

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	54	--	4	1.7	230	9.0	<.02	<.020	<.020	3.5
NOV 17...	28	20	3	.9	230	8.0	<.02	<.020	<.020	2.0
DEC 15...	35	15	5	.9	<35	7.0	.48	.120	<.020	<1.0
JAN 22...	30	10	8	.3	30	7.0	<.02	<.020	<.020	2.0
FEB 19...	89	30	8	1.0	<30	3.0	.28	.020	<.020	9.0
MAR 19...	71	50	8	.9	2300	4.0	.03	<.020	.030	12
APR 23...	43	120	6	.9	65	3.0	.02	<.020	.020	16
MAY 21...	43	60	6	1.2	30	--	.02	<.020	.020	10
JUN 18...	42	50	4	.8	40	8.0	.04	<.020	.020	8.0
JUL 23...	40	20	3	.7	<30	10	.02	.020	<.020	1.7
AUG 20...	34	10	5	1.0	<30	9.0	.06	.030	.020	1.5
SEP 24...	38	10	2	1.1	30	8.0	<.02	.050	<.020	1.6

02216610 TILLMAN MILL CREEK NEAR LUMBER CITY, GA.

LOCATION.--Lat 31°58'53", long 82°38'32", Wheeler County, Hydrologic Unit 03070104, on right bank 18 ft (5.5 m) upstream from culvert on State Highway 19, 4.3 mi (6.9 km) northeast of Lumber City, and 4.7 mi (7.6 km) upstream from mouth.

DRAINAGE AREA.--2.71 mi² (7.02 km²).

PERIOD OF RECORD.--Annual maximum, water years 1966-74, October 1974 to current year. Records for the 1975 water year are unreliable and should not be used. Prior to October 1975, published as Ocmulgee River Tributary near Lumber City.

GAGE.--Water-stage recorder. Altitude of gage is 168 ft (51 m), from topographic map. August 27, 1965, to September 30, 1974, crest-stage gage at same site and at datum 2.00 ft (0.610 m) lower.

REMARKS.--Records fair except those for period of no gage-height record Dec. 26 to Jan. 19, which are poor.

AVERAGE DISCHARGE.--6 years (1976-81), 2.09 ft³/s (0.059 m³/s), 10.47 in/yr (266 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,070 ft³/s (30.3 m³/s) May 23, 1973, gage height, 9.59 ft (2.923 m), present datum, from floodmarks; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 140 ft³/s (3.96 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 1	1445	*544	15.4	6.91	2.106

Minimum discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.02	.44	.21	98	.00	.00	.00	.00	.00
2	.00	.00	.00	.02	2.9	.20	11	.00	.00	.00	.00	.00
3	.00	.00	.00	.02	2.3	.15	4.0	.00	.00	.00	.00	.00
4	.00	.00	.00	.02	1.3	.30	3.1	.00	.00	.00	.00	.00
5	.00	.00	.00	.02	.94	8.7	2.7	.00	.00	.00	.00	.00
6	.00	.00	.00	.01	.79	2.3	2.8	.00	.00	.00	.00	.00
7	.00	.00	.00	.02	.85	.98	2.0	1.1	.00	.00	.00	.00
8	.00	.00	.00	.05	.88	.60	1.6	.76	.00	.00	.00	.00
9	.00	.00	.00	.10	.72	.46	1.5	.23	.00	.00	.00	.00
10	.00	.00	.00	.07	.82	.38	1.2	.11	.00	.00	.00	.00
11	.00	.00	.00	.06	18	.33	1.1	.04	16	.00	.00	.00
12	.00	.00	.00	.05	3.7	.29	.87	.00	2.8	.00	.00	.00
13	.00	.00	.00	.04	1.2	.29	.72	.00	.64	.00	.00	.00
14	.00	.00	.00	.03	.78	.27	.43	.00	.10	.00	.00	.00
15	.00	.00	.00	.03	.59	.23	.19	.00	.00	.00	.00	.00
16	.00	.00	.00	.03	.46	.70	.19	.00	.00	.00	.00	.00
17	.00	.00	.00	.04	.43	.71	.13	.00	.00	.00	.00	.00
18	.00	.00	.00	.04	1.2	1.5	.11	.00	.00	.00	.00	.00
19	.00	.00	.00	.05	1.3	4.6	.07	.00	.00	.00	.00	.00
20	.00	.00	.00	.04	.71	1.6	.05	.00	.00	.00	.00	.00
21	.00	.00	.00	.11	.46	.85	.87	.00	.00	.00	.00	.00
22	.00	.00	.00	.07	.34	6.1	.72	.00	.00	.00	.00	.00
23	.00	.00	.00	.07	.35	4.5	.34	.00	.00	.00	.00	.00
24	.00	.00	.00	.05	.32	1.6	.19	.00	.00	.00	.00	.00
25	.00	.00	.01	.04	.27	.98	.09	.00	.00	.00	.00	.00
26	.00	.00	.02	.04	.24	.69	.04	.00	.00	.00	.00	.00
27	.00	.00	.04	.04	.20	.55	.01	.00	.00	.00	.00	.00
28	.00	.00	.08	1.1	.19	.51	.00	.00	.00	.00	.00	.00
29	.00	.00	.05	1.5	---	.47	.00	.00	.00	.00	.00	.00
30	.00	.00	.04	.88	---	5.2	.00	.00	.00	.00	.00	.00
31	.00	---	.03	.56	---	4.5	---	.00	---	.00	.00	---
TOTAL	.00	.00	.27	5.22	42.68	50.75	134.02	2.24	19.54	.00	.00	.00
MEAN	.000	.000	.009	.17	1.52	1.64	4.47	.072	.65	.000	.000	.000
MAX	.00	.00	.08	1.5	18	8.7	98	1.1	16	.00	.00	.00
MIN	.00	.00	.00	.01	.19	.15	.00	.00	.00	.00	.00	.00
CFSM	.000	.000	.003	.06	.56	.61	1.65	.03	.24	.000	.000	.000
IN.	.00	.00	.00	.07	.59	.70	1.84	.03	.27	.00	.00	.00

CAL YR 1980 TOTAL 363.88 MEAN .99 MAX 43 MIN .00 CFSM .37 IN 4.99
WTR YR 1981 TOTAL 254.72 MEAN .70 MAX 98 MIN .00 CFSM .26 IN 3.50

02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA.

LOCATION.--Lat 33°56'48", long 83°25'22", Clarke County, Hydrologic Unit 03070101, on left bank 0.5 mi (0.8 km) upstream from U.S. Highway 29, 2 mi (3.2 km) west of Athens, and 5 mi (8.0 km) upstream from Barber Creek.

DRAINAGE AREA.--398 mi^2 (1,030 km^2).

PERIOD OF RECORD.--October 1901 to October 1902, January 1929 to March 1932, April 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 555.66 ft (169.365 m) National Geodetic Vertical Datum of 1929. Oct. 11, 1901, to Oct. 25, 1902, nonrecording gage at site 1 mi (1.6 km) upstream at different datum. Jan. 16, 1929, to Mar. 15, 1932, and Apr. 29, 1937, to Sept. 30, 1940, water-stage recorder at site 4 mi (6.4 km) downstream at different datum.

REMARKS.--Records good. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--47 years, 526 ft^3/s (14.9 m^3/s), 17.95 in/yr (456 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 19,600 ft^3/s (555 m^3/s) Feb. 28, 1902, gage height, 25.5 ft (7.772 m), site and datum then in use; minimum daily, 26 ft^3/s (0.74 m^3/s) Sept. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,520 ft^3/s (99.7 m^3/s) Feb. 12, gage height, 9.25 ft (2.819 m), no peaks above base of 3,800 ft^3/s (108 m^3/s); minimum discharge, 45 ft^3/s (1.27 m^3/s) Sept. 30, gage height, 0.70 ft (0.213 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	353	308	251	238	413	625	274	251	121	85	71
2	613	308	295	240	355	410	581	249	334	140	113	92
3	407	284	287	237	457	393	466	239	536	191	136	96
4	331	342	277	234	338	382	409	231	440	237	124	100
5	295	339	270	230	300	487	409	218	399	177	105	154
6	279	295	269	223	285	486	550	210	450	189	95	158
7	271	278	267	248	277	416	450	213	441	231	84	116
8	260	270	266	268	274	388	402	224	599	188	87	238
9	250	267	268	248	270	368	382	220	446	154	109	153
10	243	265	324	240	362	375	366	210	320	139	104	111
11	236	260	341	234	2700	385	351	391	268	133	255	91
12	224	256	300	219	3260	339	340	464	245	136	266	82
13	216	252	281	212	1440	329	329	295	228	119	161	76
14	214	245	271	226	773	324	318	246	211	121	124	71
15	217	268	264	256	638	317	304	239	197	113	107	68
16	216	328	264	252	556	315	292	247	183	100	97	73
17	218	315	269	242	502	314	282	226	173	99	90	87
18	219	289	261	235	596	317	282	220	164	98	90	80
19	323	282	254	235	1400	393	289	228	159	100	107	67
20	408	266	251	242	1430	367	305	275	157	107	100	60
21	287	257	248	273	920	329	364	277	152	100	94	58
22	259	253	244	303	689	331	438	242	146	87	86	60
23	242	252	240	266	618	335	336	215	141	78	80	59
24	239	272	251	252	580	352	353	205	134	73	77	56
25	258	321	258	245	516	340	329	202	130	69	74	53
26	291	292	251	242	481	303	282	192	135	67	71	53
27	260	341	240	238	455	297	264	217	135	64	67	52
28	272	472	244	245	430	298	250	275	123	62	67	50
29	384	374	251	242	---	296	244	243	117	61	64	48
30	347	330	254	235	---	402	277	205	113	61	64	46
31	401	---	254	235	---	863	---	193	---	65	66	---
TOTAL	9690	8926	8322	7548	21140	11664	10869	7585	7527	3680	3249	2579
MEAN	313	298	268	243	755	376	362	245	251	119	105	86.0
MAX	1010	472	341	303	3260	863	625	464	599	237	266	238
MIN	214	245	240	212	238	296	244	192	113	61	64	46
CFSM	.79	.75	.67	.61	1.90	.95	.91	.62	.63	.30	.26	.22
IN.	.91	.83	.78	.71	1.98	1.09	1.02	.71	.70	.34	.30	.24

CAL YR 1980 TOTAL 254961 MEAN 697 MAX 5820 MIN 138 CFSM 1.75 IN 23.83
WTR YR 1981 TOTAL 102779 MEAN 282 MAX 3260 MIN 46 CFSM .71 IN 9.61

02217740 NORTH OCONEE RIVER ABOVE ATHENS, GA.

LOCATION.--Lat 33°58'28", long 83°22'36", Clarke County, Hydrologic Unit 03070101, at city of Athens water works intake, 0.3 mi (0.5 km) north of Athens city limit.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 15...	1420	160	7.1	7.2	24.5	13.5	8.3
NOV 12...	0830	215	6.8	7.2	5.5	10.5	9.6
DEC 01...	0915	280	--	7.3	3.0	6.0	11.9
JAN 15...	1530	190	7.1	7.3	17.0	4.0	11.8
FEB 11...	1530	1820	--	6.5	2.0	7.0	9.7
MAR 11...	1600	218	--	7.3	18.0	12.0	9.1
APR 22...	1215	195	7.3	7.1	21.0	18.5	7.7
MAY 12...	1030	308	6.6	6.9	19.0	15.5	8.7
JUN 11...	1200	190	7.3	7.0	35.5	25.0	7.3
JUL 15...	0945	75	7.4	7.4	35.0	26.0	5.7
AUG 13...	0830	90	7.2	7.1	28.5	24.0	6.7
SEP 22...	0915	50	7.2	7.1	20.5	17.0	8.6

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, CONFIRMED (MPN)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 15...	58	11	1.2	43000	4300	21	.25	<.020	.020	2.0
NOV 12...	60	8	.8	9300	280	23	.17	.050	.020	<1.0
DEC 01...	56	9	1.5	2300	930	20	.32	.120	<.020	<1.0
JAN 15...	54	8	.3	9300	2300	21	.40	.060	.030	<1.0
FEB 11...	40	112	2.5	33000	4300	8.0	.37	.040	.130	6.5
MAR 11...	54	15	1.9	23000	2300	20	.31	.050	.030	<1.0
APR 22...	59	16	.7	2300	430	23	.35	.020	.020	<1.0
MAY 12...	54	48	1.6	43000	930	20	.34	.040	.080	3.0
JUN 11...	61	30	.7	210	<30	22	.35	.020	.030	2.0
JUL 15...	68	15	.6	9300	2100	27	.28	.040	.050	<1.0
AUG 13...	62	15	1.0	--	930	21	.17	.040	.070	2.0
SEP 22...	69	14	.5	4300	430	27	.21	.070	.020	1.0

02218000 OCONEE RIVER NEAR WATKINSVILLE, GA.

LOCATION.--Lat 33°51'21", long 83°19'35", Oconee-Clarke County line, Hydrologic Unit 03070101, at bridge on Barnett Shoals Road, 1 mi (1.6 km) upstream from Barnett Shoals Dam and 4 mi (6.4 km) east of Watkinsville.

DRAINAGE AREA.--783 mi2 (2,030 km2).

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for water years 1901-2 are published in records of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
15...	1320	480	6.9	7.0	22.0	14.5	7.6
NOV							
12...	0730	560	6.7	7.2	2.0	10.5	9.2
DEC							
01...	1000	750	7.1	7.2	10.0	6.0	11.8
JAN							
15...	1400	530	7.1	7.1	14.5	4.0	12.0
FEB							
11...	1430	6200	--	6.6	4.0	7.0	11.5
MAR							
11...	1500	760	--	7.3	18.0	12.0	10.1
APR							
22...	1030	790	7.2	7.0	18.0	18.0	7.7
MAY							
12...	0930	900	6.5	6.9	16.0	15.5	8.9
JUN							
11...	1100	620	7.1	6.9	34.5	26.0	6.8
JUL							
15...	0830	300	7.2	7.4	32.5	26.5	6.3
AUG							
12...	1530	400	7.0	6.9	31.0	25.0	6.2
SEP							
22...	0745	160	7.1	7.0	13.5	17.0	7.2

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
15...	74	8	6	1.9	750	19	<1	1.0	.150	.43	.140	1.0
NOV												
12...	74	8	6	1.4	4300	22	5	.72	.230	.43	.160	1.0
DEC												
01...	66	9	6	1.3	930	18	8	.62	.100	.30	.090	<1.0
JAN												
15...	107	11	6	.1	230	18	6	.33	.070	1.50	.050	2.0
FEB												
11...	45	248	45	3.7	15000	7.0	376	.61	.170	1.50	.410	14
MAR												
11...	66	16	6	2.2	2300	18	17	.67	.280	.50	.120	<1.0
APR												
22...	67	25	10	1.9	930	20	54	.75	.180	.60	.140	5.5
MAY												
12...	66	96	21	2.8	4300	18	136	.80	.140	.80	.280	7.0
JUN												
11...	77	32	11	1.1	26000	17	35	.92	.090	.50	.150	3.0
JUL												
15...	86	8	--	.8	230	21	9	1.1	.100	--	.290	1.0
AUG												
12...	74	84	--	3.0	4300	15	116	1.1	.120	--	.330	4.0
SEP												
22...	113	10	--	.8	230	22	6	2.0	.090	--	.340	3.4

02218300 OCONEE RIVER NEAR PENFIELD, GA.

LOCATION.—Lat 33°43'16", long 83°17'44", Greene County, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 15, 7.0 mi (11.2 km) upstream from Greenbrier Creek, 8.0 mi (12.9 km) northwest of Penfield, and 10.0 mi (16.1 km) southeast of Watkinsville.

DRAINAGE AREA.—940 mi² (2,430 km²).

PERIOD OF RECORD.—Water years 1970-77 (annual maximum), August 1977 to current year.

GAGE.—Water-stage recorder. Datum of gage is 433.26 ft (132.058 m), National Geodetic Vertical Datum of 1929. Nov. 4, 1969 to July 21, 1977, crest-stage gage at same site and datum.

REMARKS.—Records good. Some regulation at low flow from manipulation of Barnett Shoals Dam.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 19,700 ft³/s (558 m³/s) Mar. 16, 1976, gage height, 22.11 ft (6.739 m); minimum daily, 223 ft³/s (6.23 m³/s) Oct. 12, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Apr. 6, 1936, reached a stage of 26.7 ft (8.14 m), discharge, 41,500 ft³/s (1,180 m³/s), from rating curve extended above 21,000 ft³/s (595 m³/s) on basis of computation of flow over Barnett Shoals Dam located 10 mi (16.1 km) upstream.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 4,600 ft³/s (130 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Feb. 11	2200	*8720	247	15.73	4.795

Minimum daily discharge, 123 ft³/s (3.48 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2030	922	756	624	571	984	1670	606	546	249	171	155
2	1640	822	706	618	733	979	1480	562	677	326	236	177
3	1150	738	683	585	982	947	1200	546	698	341	260	180
4	843	801	651	581	908	900	1030	531	1050	426	291	253
5	702	943	635	579	772	1090	955	503	778	456	243	467
6	619	840	628	577	724	1160	1050	493	1100	428	219	398
7	574	740	622	584	709	1036	1080	492	1310	426	200	361
8	556	706	616	626	691	918	942	493	1230	443	201	419
9	539	664	628	625	663	863	872	492	1200	365	192	795
10	528	651	993	602	730	826	824	480	897	313	231	537
11	514	638	991	595	6530	854	798	739	698	275	268	360
12	494	622	836	590	7620	798	781	981	674	270	596	279
13	486	612	728	587	6370	763	742	783	673	280	458	237
14	478	603	679	584	2910	753	710	596	549	251	321	213
15	461	638	666	582	1660	745	682	549	511	243	250	218
16	475	822	648	580	1380	736	651	536	462	225	237	195
17	483	820	650	578	1230	727	630	533	412	227	224	189
18	500	764	642	576	1830	734	624	484	381	228	202	203
19	508	714	615	574	3750	859	622	520	395	226	213	206
20	811	664	605	573	3860	888	685	568	371	209	274	155
21	852	638	592	617	3050	785	1330	609	355	211	237	164
22	673	625	585	665	1990	757	943	568	358	199	214	163
23	577	622	589	653	1570	783	845	500	328	177	194	158
24	539	703	585	598	1390	761	773	457	306	167	188	151
25	585	750	594	581	1250	776	789	470	294	146	182	139
26	638	746	609	581	1150	722	689	444	285	149	172	133
27	641	896	598	585	1070	681	621	536	281	206	149	126
28	651	1060	602	609	1020	668	588	580	272	159	147	141
29	769	999	627	605	---	667	566	568	256	140	145	129
30	907	843	640	568	---	845	588	461	244	147	144	123
31	906	---	634	564	---	1330	---	504	---	143	151	---
TOTAL	22129	22606	20633	18446	57113	26329	25760	17184	17591	8051	7210	7424
MEAN	714	754	666	595	2040	849	859	554	586	260	233	247
MAX	2030	1060	993	665	7620	1330	1670	981	1310	456	596	795
MIN	461	603	585	564	571	667	566	444	244	140	144	123
CFSM	.76	.80	.71	.63	2.17	.90	.91	.59	.62	.28	.25	.26
IN.	.88	.89	.82	.73	2.26	1.04	1.02	.68	.70	.32	.29	.29

CAL YR 1980 TOTAL 602793 MEAN 1647 MAX 12100 MIN 262 CFSM 1.75 IN 23.86
WTR YR 1981 TOTAL 250476 MEAN 686 MAX 7620 MIN 123 CFSM .73 IN 9.91

02218500 OCONEE RIVER NEAR GREENSBORO, GA.

LOCATION.--Lat 33°34'32", long 83°16'22", Greene County, Hydrologic Unit 03070101, on right bank 300 ft (91 m) downstream from bridge on State Highway 12, 1 mi (1.6 km) downstream from Town Creek, 5 mi (8.0 km) upstream from Apalachee River, 5 mi (8.0 km) west of Greensboro, and 12 mi (19.3 km) downstream from Barnett Shoals Dam.

DRAINAGE AREA.--1,090 mi² (2,820 km²), approximately.

PERIOD OF RECORD.--November 1969 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for water years 1903-32, 1936-78 are published in records of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
DEC						
01...	1145	6.9	7.2	16.0	8.0	10.7
MAR						
11...	1330	--	7.2	19.5	13.5	10.2
JUN						
11...	0915	7.0	7.0	31.0	28.0	5.7
SEP						
21...	1700	7.2	7.0	28.0	22.0	11.2

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC									
01...	71	16	1.9	430	21	.40	.060	.100	4.0
MAR									
11...	63	23	2.6	2300	19	.58	.040	.070	<1.0
JUN									
11...	73	19	2.3	930	19	.63	.080	.040	3.0
SEP									
21...	80	15	4.1	<30	20	.26	.090	.080	2.6

02219000 APALACHEE RIVER NEAR BOSTWICK, GA.

LOCATION.--Lat 33°47'17", long 83°28'27", Morgan-Oconee County line, Hydrologic Unit 03070101, on left bank 1,000 ft (305 m) upstream from bridge on Price Mill Road, 3.0 mi (4.8 km) southwest of Bishop, 4.0 mi (6.4 km) upstream from Jacks Creek, and 4.0 mi (6.4 km) northeast of Bostwick.

DRAINAGE AREA.--176 mi^2 (456 km^2).

PERIOD OF RECORD.--June 1944 to December 1949, April 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 535 ft (163 m), from topographic map.

REMARKS.--Records good. Some regulation at low flow from manipulation of High Shoals Dam.

AVERAGE DISCHARGE.--9 years (water years 1945-49, 1978-81), 261 ft^3/s (7.39 m^3/s), 20.14 in/yr (512 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft^3/s (241 m^3/s) Jan. 6, 1946, gage height, 8.9 ft (2.71 m); minimum daily discharge, 14 ft^3/s (0.40 m^3/s) Sept. 29, 30, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft^3/s (62.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	(m^3/s)	Gage height (ft)	(m)
Feb. 11	0500	*3020	85.5	5.01	1.527

Minimum daily discharge, 14 ft^3/s (0.40 m^3/s) Sept. 29,30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	436	140	159	113	84	177	299	109	105	29	28	20
2	331	121	154	110	146	177	283	98	96	42	42	34
3	215	112	151	106	184	171	226	93	96	52	50	27
4	162	124	151	99	144	168	194	89	107	70	45	60
5	138	186	149	96	116	225	189	86	114	67	39	54
6	125	146	147	96	109	220	217	85	133	64	34	42
7	118	122	144	96	105	185	199	90	183	61	32	36
8	113	116	127	95	105	169	175	92	139	56	33	46
9	107	112	126	95	102	162	166	89	112	50	41	44
10	105	109	262	94	192	157	159	89	95	44	38	35
11	99	103	255	94	2200	153	153	145	81	53	42	30
12	91	101	192	93	1650	149	146	162	77	52	47	27
13	92	107	163	93	677	146	139	126	74	44	44	26
14	92	127	156	92	353	145	132	108	69	37	40	24
15	90	144	148	92	280	135	126	113	63	35	34	23
16	84	173	147	91	240	130	121	106	58	32	31	22
17	85	162	147	91	219	130	117	100	54	29	28	23
18	85	147	139	90	391	139	116	94	51	44	28	24
19	88	141	134	90	709	167	116	99	49	37	29	22
20	108	135	131	92	530	157	128	109	49	28	27	21
21	103	135	127	106	372	139	164	109	47	36	26	21
22	93	132	124	111	296	138	145	100	43	30	24	20
23	91	132	124	102	265	140	134	90	40	26	24	20
24	92	152	124	96	247	136	128	83	38	26	24	19
25	99	159	123	92	225	132	133	78	38	29	22	18
26	110	152	119	89	212	128	117	76	59	27	21	19
27	108	184	116	89	193	124	108	92	44	27	20	21
28	113	213	116	94	180	122	102	109	46	23	20	16
29	131	187	116	93	---	120	104	96	33	27	20	14
30	144	165	116	88	---	186	109	82	30	20	20	14
31	148	---	115	86	---	288	---	77	---	22	20	---
TOTAL	3996	4239	4502	2964	10526	4915	4645	3074	2223	1219	973	822
MEAN	129	141	145	95.6	376	159	155	99.2	74.1	39.3	31.4	27.4
MAX	436	213	262	113	2200	288	299	162	183	70	50	60
MIN	84	101	115	86	84	120	102	76	30	20	20	14
CFSM	.73	.80	.82	.54	2.14	.90	.88	.56	.42	.22	.18	.16
IN.	.84	.90	.95	.63	2.22	1.04	.98	.65	.47	.26	.21	.17

CAL YR 1980 TOTAL 106861 MEAN 292 MAX 3140 MIN 46 CFSM 1.66 IN 22.59
WTR YR 1981 TOTAL 44098 MEAN 121 MAX 2200 MIN 14 CFSM .69 IN 9.32

02220550 WHITTEN CREEK NEAR SPARTA, GA.

LOCATION.—Lat 33°23'13", long 83°01'29", Hancock County, Hydrologic Unit 03070101, in right bank 100 ft (30 m) upstream from bridge on State Highway 15, 5 mi (8.0 km) upstream from mouth, and 8.5 mi (13.7 km) northwest of Sparta.
DRAINAGE AREA.—15 mi^2 (39 km^2), approximately.
PERIOD OF RECORD.—June 1960 to current year.
GAGE.—Water-stage recorder. Altitude of gage is 395 ft (120 m), from topographic map. Prior to Aug. 17, 1963, water-stage recorder at site 100 ft (30 m) downstream at same datum.
REMARKS.--Records good.
AVERAGE DISCHARGE.—21 years, 15.9 ft^3/s (0.45 m^3/s), 14.39 in/yr (366 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,770 ft^3/s (107 m^3/s) Feb. 24, 1961, gage height, 16.0 ft (4.88 m), at former site; minimum daily discharge, 0.01 ft^3/s (0.0003 m^3/s) Sept. 30, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft^3/s (17.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	0345	*2400	68.0	14.79	4.508	June 7	2345	1200	34.0	11.80	3.600

Minimum daily discharge, 0.01 ft^3/s (0.0003 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	2.2	3.0	3.1	3.2	13	59	4.1	3.8	1.9	.59	.19
2	3.2	2.0	2.9	3.1	7.5	13	36	3.8	2.4	3.3	.84	.16
3	2.1	2.0	2.7	3.0	6.5	11	20	3.6	2.5	2.3	.86	.14
4	1.7	2.6	2.6	3.1	5.0	10	14	3.4	2.7	2.3	.61	.16
5	1.6	2.5	2.5	3.0	4.5	16	12	3.3	2.2	1.8	.40	.27
6	1.5	2.5	2.5	3.0	4.2	13	11	3.3	2.0	1.8	.36	.21
7	1.5	2.5	2.5	4.0	4.2	12	9.6	3.5	221	1.3	.32	.16
8	1.5	2.5	2.5	3.5	4.2	10	8.9	3.4	143	1.2	.61	.13
9	1.5	2.5	2.6	3.4	3.7	9.5	8.2	3.2	15	1.1	1.5	.11
10	1.4	2.3	17	3.3	117	8.9	7.7	3.1	8.4	1.1	.70	.09
11	1.4	2.3	12	3.3	975	8.5	7.2	3.1	6.2	1.0	.53	.08
12	1.3	2.2	7.0	3.2	57	8.1	6.7	3.1	5.6	.95	.56	.07
13	1.3	2.2	5.6	3.3	31	7.7	6.7	2.9	5.0	.89	7.5	.06
14	1.4	2.3	4.8	3.3	24	7.5	6.3	2.7	4.2	.82	1.3	.05
15	1.4	3.6	4.2	3.2	21	7.2	6.1	2.8	3.6	.76	.97	.13
16	1.4	4.7	4.1	3.1	19	7.4	5.8	2.6	3.3	.83	1.0	.44
17	1.4	2.7	3.8	3.1	18	7.2	5.7	2.6	3.1	.70	.58	.17
18	1.5	3.5	3.5	3.0	117	14	5.6	2.6	2.8	.88	.38	.10
19	1.6	3.0	3.5	3.0	84	21	5.6	2.6	2.7	.84	.40	.07
20	1.5	2.4	3.4	3.2	32	13	6.0	2.5	2.5	.95	.37	.07
21	1.5	2.3	3.2	4.1	21	11	24	2.6	2.5	.98	.35	.06
22	1.5	2.2	3.2	3.5	17	9.7	10	2.3	2.3	.66	.46	.06
23	1.6	2.3	3.4	3.3	30	10	7.7	2.2	2.2	.50	.35	.06
24	1.8	6.2	3.5	3.1	21	9.3	7.6	2.2	2.0	.40	.40	.05
25	2.1	6.4	3.5	3.0	17	8.4	6.4	2.1	2.0	.40	.35	.04
26	2.1	3.5	3.2	3.0	16	7.8	5.7	2.1	2.0	.39	.32	.04
27	1.9	5.7	3.2	3.1	15	7.5	5.3	4.6	1.9	.37	.27	.03
28	2.9	6.5	3.3	4.7	13	7.3	4.7	3.2	1.7	.38	.25	.03
29	2.6	4.0	3.3	3.7	---	7.1	4.3	2.2	1.7	.34	.24	.02
30	2.4	3.3	3.3	3.4	---	12	4.6	2.1	1.6	.33	.23	.01
31	2.4	---	3.2	3.3	---	12	---	2.1	---	.40	.21	---
TOTAL	61.8	94.9	129.0	102.4	1688.0	320.1	328.4	89.9	461.9	31.87	23.81	3.26
MEAN	1.99	3.16	4.16	3.30	60.3	10.3	10.9	2.90	15.4	1.03	.77	.11
MAX	8.8	6.5	17	4.7	975	21	59	4.6	221	3.3	7.5	.44
MIN	1.3	2.0	2.5	3.0	3.2	7.1	4.3	2.1	1.6	.33	.21	.01
CFSM	.13	.21	.28	.22	4.02	.69	.73	.19	1.03	.07	.05	.007
IN.	.15	.24	.32	.25	4.19	.79	.81	.22	1.15	.08	.06	.01

CAL YR 1980 TOTAL 4149.74 MEAN 11.3 MAX 320 MIN .10 CFSM .75 IN 10.29
WTR YR 1981 TOTAL 3335.34 MEAN 9.14 MAX 975 MIN .01 CFSM .61 IN 8.27

02220900 LITTLE RIVER NEAR EATONTON, GA.

LOCATION.--Lat 33°18'50", long 83°26'14", Putnam County, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 16, 0.9 mi (1.4 km) downstream from Glady Creek, and 3.0 mi (4.8 km) west of Eatonton.

DRAINAGE AREA.--262 mi^2 (679 km^2).

PERIOD OF RECORD.--Water years 1971-77 (annual maximum), August 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 370 ft (113 m), from topographic map. Feb. 19, 1970 to Aug. 1, 1977, crest-stage gage at same site and datum.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s (357 m^3/s) Mar. 3, 1971, gage height, 24.4 ft (7.44 m); minimum daily discharge, 6.7 ft^3/s (0.19 m^3/s) July 28, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	0600	*5600	156	17.03	5.191

Minimum daily discharge, 6.7 ft^3/s (0.19 m^3/s) July 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	311	74	105	77	77	156	802	97	51	16	68	30
2	206	62	96	73	117	166	940	86	71	19	352	30
3	126	55	91	71	148	159	546	76	75	28	190	39
4	86	67	86	70	128	145	378	70	66	32	95	59
5	65	69	82	69	107	240	293	67	57	31	60	65
6	55	60	80	66	99	253	242	64	50	28	43	136
7	48	56	80	81	95	194	210	69	95	28	36	108
8	46	54	79	95	94	165	186	73	276	31	89	70
9	44	54	80	91	90	149	170	68	262	37	269	78
10	42	58	131	79	588	140	164	63	125	30	203	65
11	41	53	243	78	5160	134	153	75	83	24	142	48
12	37	53	193	78	4160	130	140	186	66	20	377	39
13	34	52	141	76	1280	127	129	123	101	22	557	34
14	33	53	121	75	538	125	120	89	89	18	314	31
15	34	66	109	74	384	121	113	82	70	16	140	29
16	36	129	103	72	306	121	105	79	54	14	89	30
17	36	127	101	69	257	117	98	69	46	13	96	30
18	35	106	96	67	658	164	96	64	40	15	102	27
19	36	88	90	66	1090	330	94	61	37	17	136	24
20	37	77	86	65	899	246	90	62	37	18	151	22
21	36	73	82	81	486	180	142	63	33	19	86	21
22	37	69	78	91	336	165	162	59	29	17	65	20
23	37	68	77	84	278	180	138	54	26	14	56	19
24	37	90	81	75	238	165	130	51	24	12	51	19
25	40	146	85	71	215	147	116	48	22	11	48	18
26	44	134	80	70	191	137	103	45	30	8.7	43	17
27	47	133	76	70	173	131	93	68	20	7.1	38	16
28	57	169	75	87	159	127	87	89	19	6.7	36	15
29	73	152	78	105	---	123	83	81	17	8.0	33	14
30	80	120	81	97	---	188	87	58	16	69	32	14
31	80	---	80	83	---	316	---	50	---	73	31	---
TOTAL	1956	2567	3066	2406	18351	5241	6210	2289	1987	702.5	4028	1167
MEAN	63.1	85.6	98.9	77.6	655	169	207	73.8	66.2	22.7	130	38.9
MAX	311	169	243	105	5160	330	940	186	276	73	557	136
MIN	33	52	75	65	77	117	83	45	16	6.7	31	14
CFSM	.24	.33	.38	.30	2.50	.65	.79	.28	.25	.09	.50	.15
IN.	.28	.36	.44	.34	2.61	.74	.88	.33	.28	.10	.57	.17

CAL YR 1980 TOTAL 92101.0 MEAN 252 MAX 3670 MIN 15 CFSM .96 IN 13.08
WTR YR 1981 TOTAL 49970.5 MEAN 137 MAX 5160 MIN 6.7 CFSM .52 IN 7.10

02221525 MURDER CREEK BELOW EATONTON, GA.

LOCATION.--Lat 33°15'08", long 83°28'53", Putnam County, Hydrologic Unit 03070101, in left bank 250 ft (76 m) upstream from bridge on county road S-777, 3.0 mi (4.8 km) downstream from Beaverdam Creek, 5.8 mi (9.3 km) upstream from mouth, and 7.5 mi (12.1 km) southwest of Eatonton.
DRAINAGE AREA.--190 mi^2 (492 km^2).
PERIOD OF RECORD.--April 1977 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 375 ft (114 m), from topographic map.
REMARKS.--Records good. Some diurnal fluctuation at low flow.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,270 ft^3/s (178 m^3/s) Feb. 24, 1979, gage height, 9.19 ft (2.801 m); minimum daily discharge, 7.7 ft^3/s (0.22 m^3/s) July 30, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft^3/s (51.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	1215	*4280	121	6.98	2.128

Minimum daily discharge, 7.7 ft^3/s (0.22 m^3/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	46	67	59	61	109	529	74	38	16	34	23
2	81	42	63	57	87	121	864	67	48	24	98	23
3	52	39	.61	56	110	114	423	64	51	35	65	22
4	40	48	58	56	84	106	261	60	47	44	40	25
5	35	64	57	55	76	170	214	58	41	38	29	24
6	32	51	56	54	72	163	187	57	42	29	23	37
7	31	44	57	65	71	132	165	60	71	30	23	42
8	30	43	57	74	72	120	151	60	222	32	40	32
9	29	42	56	70	71	111	141	56	136	27	58	28
10	28	41	90	68	410	106	134	54	77	21	45	25
11	28	42	143	67	3760	103	124	61	58	19	59	20
12	27	41	98	66	3320	101	120	75	50	17	152	17
13	26	41	80	64	872	98	114	60	49	16	79	16
14	25	41	74	64	318	97	109	54	47	18	57	15
15	26	53	70	64	221	94	103	53	42	14	39	14
16	27	96	68	62	177	97	98	54	37	12	32	15
17	28	76	68	60	154	90	95	49	35	11	36	16
18	28	68	65	59	320	114	96	50	32	16	88	14
19	29	60	64	58	590	302	93	47	37	19	61	12
20	30	53	63	57	384	186	90	46	55	15	41	11
21	29	50	61	64	247	145	102	48	36	19	34	11
22	29	49	59	68	195	139	105	45	30	22	30	11
23	28	49	60	63	177	162	94	42	26	14	27	11
24	30	61	62	62	155	139	98	40	23	11	27	10
25	33	105	66	62	136	126	89	37	22	9.8	27	9.8
26	36	82	63	60	125	119	80	37	29	9.2	25	9.5
27	36	83	59	60	118	114	75	79	25	10	23	10
28	44	109	59	71	112	110	71	89	20	8.4	21	10
29	57	87	60	75	---	109	68	55	18	8.0	20	9.6
30	51	73	60	65	---	152	76	42	17	7.7	21	9.1
31	51	---	61	62	---	259	---	38	---	16	23	---
TOTAL	1227	1779	2085	1947	12495	4108	4969	1711	1461	588.1	1377	532.0
MEAN	39.6	59.3	67.3	62.8	446	133	166	55.2	48.7	19.0	44.4	17.7
MAX	171	109	143	75	3760	302	864	89	222	44	152	42
MIN	25	39	56	54	61	90	68	37	17	7.7	20	9.1
CFSM	.21	.31	.35	.33	2.35	.70	.87	.29	.26	.10	.23	.09
IN.	.24	.35	.41	.38	2.45	.80	.97	.33	.29	.12	.27	.10

CAL YR 1980 TOTAL 66416.0 MEAN 181 MAX 2670 MIN 13 CFSM .95 IN 13.00
WTR YR 1981 TOTAL 34279.1 MEAN 93.9 MAX 3760 MIN 7.7 CFSM .49 IN 6.71

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.

LOCATION.--Lat 33°04'58", long 83°12'51", Baldwin County, Hydrologic Unit 03070101, at right bank on city of Milledgeville water works intake structure at Milledgeville, 0.5 mi (0.8 km) upstream from bridge on State Highway 24, 3.8 mi (6.1 km) downstream from Sinclair Dam of Georgia Power Co., and at mile 139.1 (223.8 km).

DRAINAGE AREA.--2,950 mi^2 (7,640 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1903 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1142: 1928(M). WSP 1504: 1903-4, 1908, 1912-13, 1914(M), 1915-17. WSP 1554: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 230.84 ft (70.360 m), National Geodetic Vertical Datum of 1929. Prior to May 23, 1906, Jan. 1 to Oct. 5, 1909, Jan. 1, 1932, to Sept. 30, 1939, nonrecording gages at site 0.5 mi (0.8 km) downstream, and Oct. 1, 1939, to Mar. 8, 1966, water-stage recorder 0.3 mi (0.5 km) downstream, all at present datum. May 23, 1906, to Dec. 31, 1908, and Oct. 6, 1909, to Dec. 31, 1931, nonrecording gages at Fraleys Ferry, 6.8 mi (10.9 km) upstream at different datum.

REMARKS.--Records good. Flow regulated by Lake Oconee since January 1979 and Sinclair Reservoir since November 1952. (See "Lakes and Reservoirs in Altamaha River Basin," stations 02220450 and 02225000.)

AVERAGE DISCHARGE.--78 years, 3,354 ft^3/s (95.0 m^3/s), 15.44 in/yr (392 mm/yr), adjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 122,000 ft^3/s (3,460 m^3/s) Feb. 25, 1961, gage height, 42.9 ft (13.08 m), from rating curve extended above 77,000 ft^3/s (2,180 m^3/s); minimum daily, 90 ft^3/s (2.55 m^3/s) for several days in August and September 1925 and on Aug. 3, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 46.7 ft (14.23 m) in 1886 at site 0.5 mi (0.8 km) downstream at present datum, from information by Georgia Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 65,900 ft^3/s (1,870 m^3/s) Feb. 11, gage height, 35.98 ft (10.967 m); minimum daily discharge, 256 ft^3/s (7.25 m^3/s) Jan. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	669	564	2180	1470	2030	3600	4370	1900	646	360	1130	964
2	1190	495	2190	1330	2230	2700	4070	1070	1400	659	1030	934
3	2170	563	2130	1440	2180	3250	4010	504	913	697	1380	1060
4	1660	625	1210	1510	2200	3720	4000	613	1150	657	1060	1310
5	712	550	558	1640	2200	4060	4020	631	1050	714	1040	1190
6	728	460	1170	1450	2220	4000	3990	643	1350	858	1100	1080
7	582	465	1300	1890	2150	4000	3960	755	1740	816	1000	1200
8	560	504	1390	1560	2100	4010	3940	1460	4100	1000	1110	1190
9	581	603	680	1890	2100	3970	3940	736	4000	839	1030	1230
10	580	594	2040	929	2300	3970	3800	773	3320	840	1060	1310
11	611	526	2290	1540	50000	3750	3930	1490	3350	958	1030	1130
12	604	580	2230	1450	30000	3260	2520	1860	3220	945	888	1100
13	582	503	1660	500	21000	2400	3150	1540	1470	1020	919	992
14	552	533	1500	460	12000	665	2210	1630	907	730	1000	1130
15	558	516	1880	420	2500	3100	1220	1540	1330	702	1010	1070
16	596	448	1810	418	2100	2200	861	1290	813	721	904	1150
17	552	489	1290	459	3200	2260	426	397	1150	726	780	1380
18	563	1540	1940	426	9500	1930	642	1150	972	1100	877	1240
19	495	1510	2120	351	10500	2240	719	555	969	1990	928	1160
20	443	1440	1450	366	9200	2440	761	421	625	998	882	1060
21	513	1620	976	350	6500	2570	1580	547	570	926	870	1150
22	543	1710	1970	297	3900	3250	1730	533	410	937	883	1150
23	554	1990	1470	256	4000	3230	1750	543	888	929	887	537
24	548	2140	967	308	4000	2510	2090	539	870	980	823	556
25	361	2180	669	369	4100	2010	1720	354	1340	956	720	579
26	650	2150	576	322	4150	1820	1760	1980	422	950	637	518
27	603	2190	778	403	3700	1380	917	2040	340	1040	676	545
28	570	2240	462	394	1250	977	1520	1900	380	1120	972	278
29	558	2200	590	328	---	1130	1200	1570	405	614	779	308
30	490	2170	1570	1500	---	2360	1650	1420	390	949	913	749
31	610	---	1410	2130	---	2330	---	549	---	1050	903	---
TOTAL	20988	34098	44456	28156	203310	85092	72456	32933	40490	27781	29221	29250
MEAN	677	1137	1434	908	7261	2745	2415	1062	1350	896	943	975
MAX	2170	2240	2290	2130	50000	4060	4370	2040	4100	1990	1380	1380
MIN	361	448	462	256	1250	665	426	354	340	360	637	278
MEAN†	1049	1494	1490	1329	7239	2696	2223	984	1294	187	714	466
CFSM†	.36	.51	.51	.45	2.45	.91	.75	.33	.44	.06	.24	.16
IN†	.41	.56	.58	.52	2.55	1.05	.84	.38	.49	.07	.28	.18

CAL YR 1980 TOTAL 1351285 MEAN 3692 MAX 50300 MIN 361 MEAN† 3673 CFSM† 1.25 IN† 16.90
WTR YR 1981 TOTAL 648231 MEAN 1776 MAX 50000 MIN 256 MEAN† 1723 CFSM† 0.58 IN† 7.93

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE OCONEE AND SINCLAIR RESERVOIR.

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—March 1968 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 15...	0840	375	7.1	7.1	11.5	21.0	6.8
NOV 11...	1300	375	6.9	7.3	20.0	18.5	8.8
DEC 02...	0740	489	--	7.2	2.0	12.5	8.3
JAN 15...	0800	438	6.7	7.2	1.0	7.0	10.8
FEB 11...	0845	54000	--	7.4	15.5	9.0	12.8
MAR 10...	1500	3980	--	7.4	19.5	13.0	9.0
APR 21...	1730	3210	7.1	6.7	16.0	17.0	6.4
MAY 11...	1515	3100	6.7	6.5	18.0	20.0	8.6
JUN 10...	1215	3330	6.5	6.9	32.5	24.5	4.1
JUL 14...	1230	308	7.0	7.1	34.5	29.0	5.8
AUG 12...	0945	370	7.0	7.0	26.0	28.0	5.9
SEP 21...	1215	284	7.5	7.1	28.0	26.0	6.7

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, CONFIRMED (MPN)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 15...	58	5	1.4	430	70	18	.08	<.020	.020	100	<50	2.0
NOV 11...	60	5	.3	90	<30	19	.14	.080	<.020	170	<50	1.0
DEC 02...	62	8	.6	--	230	19	.20	.020	<.020	260	<50	<1.0
JAN 15...	69	10	.6	4300	160	21	.74	.370	.160	800	90	1.0
FEB 11...	72	23	.6	930	70	19	.31	.040	.040	790	80	4.0
MAR 10...	61	25	1.9	90	<30	16	.27	.040	.040	340	<50	2.5
APR 21...	60	19	.9	430	<30	18	.22	.100	.040	--	--	2.9
MAY 11...	62	16	.9	70	70	19	.26	.020	.030	230	65	2.0
JUN 10...	64	17	.6	--	--	17	.21	.050	.050	250	165	2.0
JUL 14...	64	5	.2	430	40	18	.07	.040	.020	500	220	2.0
AUG 12...	63	6	1.6	2300	90	18	.08	.060	.020	520	180	1.5
SEP 21...	67	3	.8	90	<30	24	.04	.090	<.020	320	<50	4.0

02223040 OCONEE RIVER NEAR HARDWICK, GA.

LOCATION.—Lat 33°01'45", long 83°11'24", Baldwin County, Hydrologic Unit 03070102, on right bank 1 mi (1.6 km) downstream from Camp Creek, and 3 mi (4.8 km) southeast of Hardwick.

PERIOD OF RECORD.—July 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.) Discharge obtained from gaging station 02223000, Oconee River at Milledgeville, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 15...	0920	375	7.2	7.1	15.5	20.5	6.6
NOV 11...	1400	375	7.0	7.3	22.5	17.5	8.3
DEC 01...	1530	3240	--	7.3	21.5	14.5	9.5
JAN 14...	1430	3190	7.1	7.3	15.0	7.0	10.6
MAR 10...	1430	3900	6.9	7.4	24.0	13.0	9.7
APR 21...	1630	3360	7.2	6.9	17.0	17.5	6.8
MAY 11...	1545	3020	6.8	6.8	18.5	20.0	8.7
JUN 10...	1300	3330	6.6	6.9	34.0	25.0	5.0
JUL 14...	1345	365	7.0	7.2	37.5	29.0	5.8
AUG 12...	1100	280	7.1	6.9	30.0	28.0	5.5
SEP 21...	1515	288	7.3	7.0	30.0	25.0	7.3

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 15...	64	5	.9	750	19	.10	.090	.100	2.5
NOV 11...	73	6	1.3	40	22	.14	.380	.140	2.0
DEC 01...	63	13	1.2	150	21	.20	.060	.030	2.0
JAN 14...	80	11	.5	930	25	.27	.340	.160	3.0
MAR 10...	64	25	1.8	2300	17	.27	.060	.050	3.0
APR 21...	62	21	1.2	430	19	.23	.120	.080	2.9
MAY 11...	64	19	1.3	430	18	.28	.060	.060	5.0
JUN 10...	66	16	.5	--	18	.09	.070	.040	2.0
JUL 14...	74	5	1.1	90	21	.09	.220	.170	3.5
AUG 12...	71	9	1.7	150000	21	.08	.100	.090	1.5
SEP 21...	77	2	1.4	430	22	.07	.460	.140	2.9

02223250 OCONEE RIVER NEAR TOOMSBORO, GA.

LOCATION.—Lat 32°46'54", long 82°57'30", Wilkinson-Washington County line, Hydrologic Unit 03070102, at bridge on State Route 57, 3.2 mi (5.1 km) downstream of Commissioner Creek, 7.5 mi (12.1 km) east of Toomsboro, and at mile 96.2 (154.8 km).
DRAINAGE AREA.—3,770 mi2 (9,760 km2).
PERIOD OF RECORD.—February 1979 to current year.
REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 15...	1020	680	7.2	7.2	18.5	18.0	7.1
NOV 11...	1500	610	7.0	7.2	22.0	16.5	9.0
DEC 01...	1415	2500	7.0	7.2	19.0	12.5	9.8
JAN 15...	1030	665	6.7	7.2	17.5	6.0	10.4
FEB 11...	1015	5000	--	7.0	17.5	11.5	10.8
MAR 11...	1000	4700	6.9	7.1	16.5	12.0	9.6
APR 21...	1530	940	7.2	6.9	15.5	19.5	7.2
MAY 11...	1730	810	7.1	6.9	21.0	21.5	8.6
JUN 10...	1600	3700	6.6	6.9	35.0	26.5	6.5
JUL 14...	1530	960	7.6	7.5	34.0	31.0	7.7
AUG 12...	1230	880	7.5	7.1	31.0	28.5	6.7
SEP 21...	1345	860	--	7.1	33.0	23.5	7.8

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 15...	108	10	7	1.1	930	19	.25	<.020	.080	--
NOV 11...	126	20	5	2.1	90	19	.62	.050	.060	3.0
DEC 01...	76	25	19	1.0	2300	19	.24	.020	.050	3.0
JAN 15...	62	30	13	<.1	40	20	.26	<.020	.030	3.0
FEB 11...	78	60	88	1.5	430	15	.48	.080	.120	5.0
MAR 11...	66	80	30	1.8	330	15	.25	.030	.060	2.0
APR 21...	92	70	15	1.6	230	22	.38	.080	.080	2.9
MAY 11...	102	45	13	.8	--	20	.48	<.020	.060	2.0
JUN 10...	79	100	24	.8	9300	17	.24	.050	.080	3.0
JUL 14...	87	15	10	.7	150	20	.15	.100	.060	1.5
AUG 12...	108	20	11	1.8	330	19	.15	.030	.070	1.0
SEP 21...	99	10	6	.7	4300	23	.18	.030	.040	1.0

02223500 OCONEE RIVER AT DUBLIN, GA.

LOCATION.—Lat 32°32'40", long 82°53'41", Laurens County, Hydrologic Unit 03070102, near left bank on downstream end of pier of bridge on U.S. Highway 80 at Dublin, and at mile 74.3 (119.5 km).

DRAINAGE AREA.—4,400 mi^2 (11,400 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—January 1894 to September 1897 (gage heights only), October 1897 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1893 are contained in reports of National Weather Service.

REVISED RECORDS.—WSP 822: Drainage area. WSP 1504: 1898-1903, 1905-6, 1908-9, 1912, 1913(M), 1925(M).

GAGE.—Water-stage recorder. Datum of gage is 149.08 ft (45.440 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 14, 1932, nonrecording gage and Apr. 15, 1932, to June 17, 1934, water-stage recorder at site 420 ft (128 m) downstream at datum 3.0 ft (0.91 m) higher, Oct. 1, 1933, to July 17, 1934 corrected to present datum. July 18, 1934, to Apr. 14, 1936, water-stage recorder, Apr. 15, 1936, to Oct. 12, 1938, nonrecording gage, and Oct. 13, 1938, to Jan. 20, 1953, water-stage recorder at site 80 ft (24 m) upstream at present datum.

REMARKS.—Records good. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.) Records of chemical analyses for the water years 1968-73 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.—84 years (1897-1981), 5,033 ft^3/s (143 m^3/s), 15.53 in/yr (394 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 97,700 ft^3/s (2,770 m^3/s) Apr. 12, 13, 1936, gage height, 32.97 ft (10.049 m); minimum, 333 ft^3/s (9.43 m^3/s) Sept. 12, 1951, gage height, 0.48 ft (0.146 m).

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1893, that of Apr. 12, 13, 1936.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 19,000 ft^3/s (538 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 15	1900	*32100	909	24.09	7.343

Minimum daily discharge, 472 ft^3/s (13.4 m^3/s) July 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2340	946	2570	1640	1680	3720	5130	1680	1370	498	980	886
2	2730	951	2540	1620	2090	3860	8830	1970	983	481	1140	905
3	1550	894	2530	1660	2280	4040	10100	1750	1120	472	1210	931
4	1780	845	2520	1550	2390	4160	9820	1340	1620	622	1190	916
5	2070	873	2350	1650	2420	5110	8980	946	1450	727	1210	1030
6	1720	916	1640	1740	2420	6350	7530	921	1400	735	1100	1180
7	1150	917	1340	1800	2440	6280	6480	937	1300	789	1060	1120
8	1020	892	1490	1850	2480	6010	5850	942	1520	871	1080	1090
9	927	882	1700	2110	2420	5770	5460	1180	3110	878	1070	1140
10	865	848	1610	1880	2500	5450	5230	1330	3800	925	1120	1120
11	799	842	1500	1850	4460	5210	5020	1010	3450	921	1140	1140
12	736	846	2360	1500	8580	4980	4810	1120	3260	904	1190	1170
13	723	826	2560	1810	11400	4410	3920	1530	3140	938	1160	1060
14	698	825	2350	1710	22400	3810	3870	1820	2050	934	1090	1030
15	702	828	2110	1250	31200	2540	3130	1670	1530	958	1070	965
16	690	904	1970	894	30400	3020	2590	1610	1170	849	1120	1050
17	694	1150	2470	860	25600	3110	1700	1470	1310	764	1100	1020
18	702	1150	1880	835	18400	3120	1490	1330	1050	762	1100	1060
19	690	1300	1820	826	11900	3130	1160	817	1070	765	1030	1190
20	698	1850	2240	796	9900	3290	1170	1110	1070	1490	1030	1120
21	682	1830	2060	760	10600	3490	1280	803	1100	1230	1040	1060
22	682	1810	1810	760	11800	3740	1570	677	820	1020	1010	1010
23	698	1880	1700	759	13100	4480	2020	683	726	920	982	1050
24	745	2170	2050	741	12800	4520	2270	695	619	897	1020	1050
25	759	2430	1760	705	9580	3860	2700	702	814	915	1030	709
26	754	2530	1410	697	6510	3420	2360	674	901	950	962	641
27	682	2600	1150	714	5680	2980	2280	786	1160	928	838	644
28	759	2620	1120	750	5250	2690	1990	1670	689	934	770	612
29	899	2660	1190	795	---	2120	1590	1920	533	982	782	596
30	966	2610	953	786	---	1990	1730	1640	511	1030	918	500
31	959	---	1130	768	---	2750	---	1470	---	833	844	---
TOTAL	31869	42625	57883	38066	272680	123410	122060	38203	44646	26922	32386	28995
MEAN	1028	1421	1867	1228	9739	3981	4069	1232	1488	868	1045	967
MAX	2730	2660	2570	2110	31200	6350	10100	1970	3800	1490	1210	1190
MIN	682	825	953	697	1680	1990	1160	674	511	472	770	500

CAL YR 1980 TOTAL 1874865 MEAN 5123 MAX 48500 MIN 682 MEAN† 5104 CFSM† 1.16 IN† 15.75
WTR YR 1981 TOTAL 859745 MEAN 2355 MAX 31200 MIN 472 MEAN† 2302 CFSM† 0.52 IN† 7.10

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE OCONEE AND SINCLAIR RESERVOIR.

02223500 OCONEE RIVER AT DUBLIN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1963 to September 1964, February 1968 to July 1973.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1963 to September 1964, June 1979 to current year.
INSTRUMENTATION.--Water-temperature recorder since June 1979.
REMARKS.--No record Mar. 3-18, Apr. 16-23, May 26 to June 24, and July 11 to Aug. 23.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 31.5°C Aug. 9, 10, 1979, Aug. 20-22, 1980; minimum, 3.5°C Jan. 13, 1981.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum recorded, 30.5°C June 25; minimum, 3.5°C Jan. 13.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.0	21.0	16.0	15.0	12.0	11.0	9.0	8.5	8.0	7.0	13.0	11.5
2	23.5	22.0	16.0	14.5	12.5	11.0	8.5	8.0	9.0	8.0	13.5	13.0
3	23.0	22.5	16.0	15.0	12.5	12.0	8.0	7.5	8.5	7.0	---	---
4	22.5	21.5	17.0	16.0	12.0	11.0	8.0	7.0	7.0	6.0	---	---
5	23.0	22.0	17.0	16.0	11.5	10.5	7.5	6.5	7.0	6.0	---	---
6	22.5	21.5	16.0	15.0	11.0	10.0	6.5	6.0	7.0	6.5	---	---
7	21.5	20.0	15.0	14.0	11.0	10.0	7.5	6.5	7.5	7.0	---	---
8	20.5	19.0	15.0	14.0	12.0	10.5	7.5	7.0	8.5	7.0	---	---
9	21.0	19.5	16.0	14.5	13.0	11.5	7.0	6.5	8.5	7.5	---	---
10	22.0	20.5	16.5	15.5	13.5	13.0	6.5	6.0	9.0	8.0	---	---
11	22.5	21.0	16.0	15.5	13.5	12.0	6.5	6.0	10.0	9.0	---	---
12	22.0	21.0	15.5	14.0	12.0	11.0	5.5	4.5	9.0	7.5	---	---
13	20.5	19.5	14.5	13.0	11.5	11.0	4.5	3.5	7.5	6.5	---	---
14	19.5	18.5	14.0	13.5	11.5	11.0	5.5	4.0	7.0	6.5	---	---
15	20.0	18.0	15.0	14.0	11.0	10.5	6.5	5.0	7.5	7.0	---	---
16	20.5	18.5	16.0	15.0	11.0	10.5	7.0	5.5	8.0	7.5	---	---
17	21.5	20.0	16.0	15.5	11.5	10.5	6.0	5.0	9.5	8.0	---	---
18	22.5	21.5	15.0	14.0	11.0	10.5	5.5	4.5	10.5	9.5	---	---
19	22.5	22.0	14.0	12.0	10.5	9.5	6.0	4.5	11.0	10.0	13.5	12.0
20	22.0	21.5	12.5	11.0	11.0	10.0	6.0	5.5	10.5	9.5	13.0	12.0
21	21.5	20.0	12.5	11.5	10.5	9.5	7.0	6.0	11.0	10.5	12.5	11.5
22	20.5	19.5	12.0	11.0	9.0	8.0	7.5	7.0	11.5	11.0	12.0	12.0
23	19.5	18.5	13.0	11.5	8.0	7.5	8.0	7.0	12.0	11.5	12.0	11.5
24	18.5	17.0	14.5	13.0	9.5	7.5	8.5	7.5	12.0	11.5	12.0	11.0
25	17.5	16.5	15.0	14.0	9.0	8.0	8.5	7.0	11.5	11.0	13.0	12.0
26	16.5	15.5	14.5	13.0	8.0	6.5	8.5	7.5	11.0	10.5	14.0	12.5
27	16.5	15.0	13.5	13.0	6.5	6.0	9.5	8.5	11.5	11.0	15.5	13.5
28	16.0	16.0	13.0	12.0	6.5	5.5	11.0	9.5	11.5	11.5	16.0	14.5
29	16.5	16.0	12.0	11.5	8.5	6.5	10.5	9.5	---	---	16.0	15.5
30	17.0	16.5	12.0	11.0	9.0	8.5	10.0	8.5	---	---	18.0	16.0
31	16.5	15.5	---	---	9.5	8.5	8.5	7.5	---	---	18.5	17.0
MONTH	23.5	15.0	17.0	11.0	13.5	5.5	11.0	3.5	12.0	6.0	18.5	11.0

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.0	17.5	22.5	21.5	---	---	27.5	26.5	---	---	28.5	27.0
2	17.5	16.0	22.0	20.5	---	---	26.5	25.5	---	---	29.0	27.5
3	16.5	16.5	21.0	19.5	---	---	25.5	25.0	---	---	28.5	27.5
4	17.5	16.5	22.0	19.5	---	---	26.0	24.5	---	---	28.5	27.5
5	17.5	17.0	22.5	20.5	---	---	27.0	26.0	---	---	28.5	27.5
6	17.0	15.5	22.0	21.5	---	---	28.0	26.5	---	---	28.5	26.5
7	16.0	15.5	21.5	19.5	---	---	28.5	27.5	---	---	28.5	27.0
8	16.5	16.0	20.5	18.5	---	---	29.5	28.0	---	---	28.5	27.0
9	17.0	16.5	20.5	19.0	---	---	30.0	29.0	---	---	28.5	27.0
10	18.0	17.0	21.0	19.5	---	---	30.0	29.0	---	---	28.0	26.5
11	18.5	18.0	21.5	20.5	---	---	---	---	---	---	27.5	26.0
12	19.0	18.5	22.0	20.0	---	---	---	---	---	---	27.5	26.0
13	20.0	19.0	22.0	20.0	---	---	---	---	---	---	27.5	26.0
14	20.0	20.0	23.0	21.0	---	---	---	---	---	---	28.0	26.5
15	20.5	20.0	23.5	22.0	---	---	---	---	---	---	28.0	26.5
16	---	---	22.5	21.5	---	---	---	---	---	---	27.5	27.0
17	---	---	22.5	20.5	---	---	---	---	---	---	27.0	26.0
18	---	---	23.5	21.5	---	---	---	---	---	---	26.0	24.0
19	---	---	23.5	23.0	---	---	---	---	---	---	24.0	22.5
20	---	---	24.0	23.0	---	---	---	---	---	---	23.5	22.0
21	---	---	23.0	22.0	---	---	---	---	---	---	23.5	22.0
22	---	---	23.5	21.0	---	---	---	---	---	---	24.5	22.5
23	20.0	18.0	24.0	22.0	---	---	---	---	---	---	25.0	23.5
24	21.0	19.5	25.0	23.0	---	---	---	---	26.5	24.0	25.5	24.0
25	20.5	19.5	26.0	24.0	30.5	28.5	---	---	27.5	25.5	24.5	23.0
26	20.5	19.0	25.5	24.5	30.5	29.0	---	---	28.0	26.5	24.0	22.5
27	21.5	19.5	---	---	30.0	29.0	---	---	27.5	26.5	24.5	23.0
28	22.0	20.0	---	---	28.5	27.5	---	---	27.0	26.5	25.5	23.0
29	22.5	21.0	---	---	28.5	26.5	---	---	27.5	26.5	25.5	23.5
30	23.0	21.5	---	---	28.0	26.0	---	---	28.0	26.5	26.0	24.0
31	---	---	---	---	---	---	---	---	29.0	27.0	---	---
MONTH	23.0	15.5	26.0	18.5	30.5	26.0	30.0	24.5	29.0	24.0	29.0	22.0

02223600 OCONEE RIVER AT I-16, NEAR DUBLIN, GA.

LOCATION.—Lat 32°29'05", long 82°51'45", Laurens County, Hydrologic Unit 03070102, at Interstate Highway 16, 4.0 mi (6.4 km) upstream from Pughes Creek, 4.5 mi (7.2 km) southeast of Dublin, and at mile 69.9 (112.5 km).

DRAINAGE AREA.—4,400 mi^2 (11,400 km^2), approximately.

PERIOD OF RECORD.—October 1973 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.) Discharge obtained from gaging station 02223500, Oconee River at Dublin, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 23...	1500	714	7.2	7.3	14.0	18.0	5.6
NOV 19...	1630	1240	6.8	7.1	14.0	13.5	9.3
DEC 17...	1245	2410	7.2	7.3	14.0	11.0	10.0
JAN 22...	0915	759	7.2	7.3	10.0	7.0	11.1
FEB 19...	0900	12400	6.3	6.7	16.0	10.5	8.6
MAR 19...	0830	3150	6.9	7.1	7.5	12.5	9.2
APR 23...	0805	2050	--	7.2	22.0	18.5	8.0
MAY 21...	0715	782	--	7.3	16.0	21.5	8.0
JUN 18...	0820	1070	--	7.2	32.5	28.5	6.5
JUL 23...	0755	1020	6.8	7.1	29.5	29.5	5.3
AUG 20...	0755	1110	6.8	7.2	25.0	24.5	6.4
SEP 24...	0805	1190	7.0	7.1	22.0	24.0	6.9

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT 23...	136	20	5	--	.7	410	24
NOV 19...	131	30	10	--	1.0	43000	21
DEC 17...	89	30	17	--	.3	9300	19
JAN 22...	139	20	10	--	1.7	2300	23
FEB 19...	76	100	33	--	1.6	930	13
MAR 19...	80	50	23	--	2.3	430	17
APR 23...	93	70	18	--	1.0	4300	25
MAY 21...	109	45	15	--	1.3	4300	24
JUN 18...	105	30	14	--	1.0	930	21
JUL 23...	100	40	19	10	.6	4300	17
AUG 20...	124	25	15	10	.6	3300	20
SEP 24...	115	10	10	7	.8	1600	20

02223600 OCONEE RIVER AT I-16, NEAR DUBLIN, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT						
23...	2	.22	.150	--	.060	3.0
NOV						
19...	<1	.17	.330	--	.080	3.5
DEC						
17...	23	.30	.060	--	.080	3.0
JAN						
22...	5	.33	.220	--	.070	3.0
FEB						
19...	23	.15	.080	--	.080	5.0
MAR						
19...	27	.23	.070	--	.060	3.0
APR						
23...	29	.30	.040	--	.080	5.0
MAY						
21...	19	.44	.100	--	.090	10
JUN						
18...	12	.32	.180	--	.070	3.0
JUL						
23...	20	.30	.180	.40	.080	3.2
AUG						
20...	18	.25	.130	.42	.070	2.0
SEP						
24...	17	.29	.240	.40	.040	2.0

02224000 ROCKY CREEK NEAR DUDLEY, GA.

LOCATION.--Lat 32°29'38", long 83°08'49", Laurens County, Hydrologic Unit 03070102, on downstream side of highway bridge, 3.2 mi (5.1 km) upstream from Buckhorn Branch, and 5 mi (8.0 km) southwest of Dudley.
DRAINAGE AREA.--62.9 mi^2 (163 km^2).
PERIOD OF RECORD.--November 1970 to current year. Water-discharge records for water years 1952-76 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT								
07...	1200	3.1	100	93	7.4	7.2	16.0	8.1
SEP								
08...	1000	2.0	120	120	--	8.0	25.0	4.0

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT										
07...	20	.60	37	11	13	1.1	2.0	1.3	26	5.1
SEP										
08...	13	1.3	52	4.0	19	1.1	3.0	1.3	48	.7

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
07...	5.7	.1	13	88	.74	.34	.010	.24	.25	.01
SEP										
08...	5.4	<.1	10	83	.45	.38	.040	.49	.53	.11

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT										
07...	.24	.59	.040	.020	10	1	1	1	10	1
SEP										
08...	.42	.91	.030	.020	20	2	2	<1	<10	1

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
07...	400	0	0	30	<.1	<.1	0	5	7.9
SEP									
08...	450	5	<1	110	<.1	<.1	<1	10	5.2

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.

LOCATION.--Lat 31°56'20", long 82°21'13", Appling-Toombs County line, Hydrologic Unit 03070106, on right bank 400 ft (122 m) downstream from bridge on U.S. Highway 1, 2.2 mi (3.5 km) upstream from Bay Creek, 8 mi (12.9 km) downstream from Bullards Creek, and 12 mi (19.3 km) north of Baxley.

DRAINAGE AREA.--11,600 mi^2 (30,000 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1949 to June 1951, October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 61.51 ft (18.748 m) National Geodetic Vertical Datum of 1929. Aug. 13, 1949, to June 30, 1951, nonrecording gage at site 400 ft (122 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--12 years (1949-50, 1971-81), 11,890 ft^3/s (337 m^3/s), 13.92 in/yr (354 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,500 ft^3/s (2,760 m^3/s) Mar. 12, 1971, gage height, 22.7 ft (6.92 m); minimum daily, 1,860 ft^3/s (52.7 m^3/s) Sept. 30, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 10, 1948, reached a stage of 25.1 ft (7.65 m), from floodmark, discharge, 130,000 ft^3/s (3,680 m^3/s).

Flood of January 1925 reached a stage of 30.0 ft (9.14 m), from information furnished by Georgia Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 25,000 ft^3/s (708 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 22	1800	*34700	983	15.98	4.870
Apr. 9	2000	28400	804	14.91	4.545

Minimum daily discharge, 1,860 ft^3/s (52.7 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2570	2670	4460	3260	2850	23400	7910	5580	3380	2230	2400	2590
2	2710	2750	4570	3220	2970	19700	13200	5320	3480	2120	2460	2560
3	3320	2830	4580	3520	3310	16300	17600	5040	3700	2070	2400	2510
4	4010	2880	4580	3710	3970	14000	19800	4930	3380	2040	2480	2500
5	3980	2900	4550	3890	4290	13300	21400	4750	3210	1980	2670	2480
6	4130	2820	4510	4120	4420	12400	22500	4320	3390	1950	2700	2430
7	4640	2740	4420	4230	4540	11600	24400	4050	3530	2040	2780	2430
8	4630	2700	4040	4190	4660	10900	26400	3880	3620	2110	2790	2590
9	4160	2690	3580	4110	4730	10600	28000	3850	3640	2150	2850	2680
10	3690	2720	3440	4020	4770	10600	28200	3790	3720	2210	2840	2770
11	3380	2800	3450	4160	5020	10600	26900	3740	4440	2290	2780	2870
12	3230	2840	3580	4190	5240	10500	24800	3890	5280	2340	2830	2880
13	3110	2820	3540	4180	6290	10400	22600	3730	5650	2320	3070	2880
14	3000	2800	3930	3930	7770	10100	20600	3590	5700	2280	3240	2890
15	2910	2800	4370	3860	9180	9540	18100	3680	5660	2250	3260	2770
16	2840	2790	4540	3850	10500	8460	15200	3790	5210	2250	3160	2580
17	2730	2740	4530	3570	12300	7140	12000	3820	4680	2260	3120	2440
18	2620	2660	4400	3230	14900	6630	9290	3790	4180	2250	3220	2400
19	2530	2720	4500	3080	19400	6770	7620	3670	3860	2110	3240	2350
20	2470	2810	4370	2990	26700	6870	6660	3470	3510	2130	3160	2350
21	2450	2910	4140	2900	32600	7060	6170	3200	3270	2070	3040	2400
22	2410	3230	4250	2810	34500	7210	5910	3120	3100	2220	2930	2450
23	2430	3470	4380	2740	34200	7620	5940	3020	2990	2490	2930	2440
24	2440	3550	4180	2700	33300	8310	5950	2800	2790	2370	3060	2420
25	2410	3620	3960	2680	32200	9050	6120	2630	2560	2290	3010	2350
26	2430	3780	4050	2670	30800	9380	6280	2580	2400	2270	2960	2330
27	2460	4030	3970	2670	28900	9150	6450	2560	2320	2280	2900	2240
28	2440	4170	3730	2690	26500	8690	6430	2500	2360	2290	2830	2100
29	2430	4240	3500	2660	---	8220	6290	2460	2490	2270	2780	1970
30	2450	4340	3340	2670	---	7810	6050	2800	2470	2260	2620	1860
31	2550	---	3320	2750	---	7350	---	3250	---	2340	2590	---
TOTAL	93560	92820	126760	105250	410810	319660	434770	113600	109970	68530	89100	74510
MEAN	3018	3094	4089	3395	14670	10310	14490	3665	3666	2211	2874	2484
MAX	4640	4340	4580	4230	34500	23400	28200	5580	5700	2490	3260	2890
MIN	2410	2660	3320	2660	2850	6630	5910	2460	2320	1950	2400	1860
CFSM	.26	.27	.35	.29	1.27	.89	1.25	.32	.32	.19	.25	.21
IN.	.30	.30	.41	.34	1.32	1.03	1.39	.36	.35	.22	.29	.24

CAL YR 1980 TOTAL 4488950 MEAN 12260 MAX 84400 MIN 2200 CFSM 1.06 IN 14.40
WTR YR 1981 TOTAL 2039340 MEAN 5587 MAX 34500 MIN 1860 CFSM .48 IN 6.54

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1970 to current year.
PERIOD OF DAILY RECORD.--
CHLORIDE: May 1970 to August 1975.
SPECIFIC CONDUCTANCE: June 1971 to September 1976.
pH: October 1971 to September 1976.
WATER TEMPERATURES: December 1970 to September 1976.
DISSOLVED OXYGEN: May 1971 to September 1976.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 22...	0900	2320	7.6	7.4	16.5	20.0	8.0
NOV 17...	1545	2730	7.2	7.7	12.5	16.5	8.8
DEC 16...	0800	4540	--	7.5	5.5	10.5	10.2
JAN 22...	1155	2820	7.3	7.6	9.5	8.0	11.1
FEB 19...	1145	19100	--	6.6	22.5	11.0	8.7
MAR 19...	1120	6770	--	7.3	10.0	14.0	8.7
APR 23...	1050	6190	--	7.2	25.0	21.0	7.1
MAY 21...	0940	3220	--	7.5	16.0	23.0	6.8
JUN 18...	1115	4190	--	7.3	34.0	30.0	6.4
JUL 23...	1245	2520	8.0	7.8	36.0	30.0	7.4
AUG 20...	1145	3170	7.4	7.4	25.0	23.5	7.1
SEP 24...	1040	2430	7.7	7.6	24.0	21.5	7.8

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 22...	139	10	6	1.4	40	41	.05	.020	.070	2.0
NOV 17...	128	20	5	.4	<30	37	.55	<.020	.060	<1.0
DEC 16...	115	25	9	1.0	90	24	.36	.040	.080	2.0
JAN 22...	128	20	8	.4	40	37	.47	.060	.060	1.0
FEB 19...	64	120	56	1.9	40	10	.16	.080	.070	5.0
MAR 19...	97	40	19	.8	40	26	.26	.020	.070	2.0
APR 23...	96	60	15	.3	40	31	.36	<.020	.060	5.5
MAY 21...	115	40	10	.8	<30	37	.36	.020	.070	2.0
JUN 18...	101	50	23	1.1	40	27	.35	.030	.100	3.0
JUL 23...	120	20	8	1.5	<30	36	.09	.020	.040	1.7
AUG 20...	134	30	14	.9	<30	31	.49	.060	.090	2.0
SEP 24...	146	20	6	.8	70	40	.39	.060	.040	2.7

02225282 CROOKED CREEK NEAR SWAINSBORO, GA.

LOCATION.—Lat 32°34'26", long 82°19'56", Emanuel County, Hydrologic Unit 03070107, at culvert on county road 1 mi (1.6 km) west of U.S. Highway 1, 1.5 mi (2.4 km) southwest of Swainsboro, and 4.2 mi (6.8 km) upstream of Yam Grandy Creek.
DRAINAGE AREA.—2.1 mi2 (5.4 km2).
PERIOD OF RECORD.—July 1979 to current year.
REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 23...	1245	2.1	7.3	7.5	15.0	21.0	5.6
NOV 19...	1445	2.1	7.1	7.6	16.5	16.5	7.9
DEC 17...	1200	.75	--	6.4	12.0	10.0	7.2
JAN 21...	1535	10	--	7.5	11.0	11.0	9.7
FEB 18...	1535	5.4	--	7.2	16.0	15.5	7.3
MAR 18...	1530	1.0	--	7.3	18.0	16.0	6.7
APR 22...	1545	4.5	--	7.2	24.0	20.0	5.8
MAY 21...	0615	.02	--	6.9	14.5	17.5	3.1
JUN 17...	1435	.02	--	6.7	38.0	28.0	.4
JUL 22...	1440	.01	6.9	7.1	37.0	29.0	1.8
AUG 19...	1455	3.2	7.2	7.3	27.0	22.0	6.6
SEP 23...	1410	2.7	7.9	7.8	29.0	23.5	7.4

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 23...	600	30	8	17	4300	256	.35	3.80	3.10	24
NOV 19...	569	20	6	5.6	<30	218	2.5	2.90	1.64	14
DEC 17...	400	--	40	>7.2	930	11	3.9	--	.180	13
JAN 21...	498	100	18	3.2	<30	170	.42	7.50	2.24	43
FEB 18...	322	40	19	15	930000	88	1.6	4.80	1.50	29
MAR 18...	1510	120	104	>30	4600000	149	33	62.5	21.8	125
APR 22...	420	80	11	9.5	90	103	1.4	12.6	2.70	21
MAY 21...	239	40	19	6.5	140	58	.06	4.74	1.60	31
JUN 17...	178	80	13	6.0	3300	44	.19	1.58	1.57	21
JUL 22...	241	80	11	18	43000	85	.10	4.70	3.60	28
AUG 19...	358	50	11	40	2300	82	.27	4.90	2.95	22
SEP 23...	595	100	14	>7.2	23000	167	3.0	13.4	4.72	28

02225470 PENDLETON CREEK NEAR OHOOPEE, GA.

LOCATION.—Lat 32°09'36", long 82°12'43", Toombs County, Hydrologic Unit 03070107, at bridge on State Route 86, 1.5 mi (2.4 km) south of Ohoopee, and 1.6 mi (2.6 km) upstream of Ohoopee River.

DRAINAGE AREA.—300 mi2 (778 km2).

PERIOD OF RECORD.—July 1979 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 23...	1145	4.0	6.1	6.2	16.0	18.0	5.2
NOV 19...	1400	54	--	6.3	14.5	13.0	6.9
DEC 17...	1045	60	--	6.5	13.0	8.5	9.2
JAN 21...	1445	73	--	7.2	9.0	7.0	12.0
FEB 18...	1445	74	--	6.1	19.0	13.0	8.3
MAR 18...	1430	58	--	6.3	21.0	14.0	8.9
APR 22...	1445	210	--	5.9	27.5	18.5	7.0
MAY 20...	1440	16	--	6.3	24.5	22.5	2.4
JUN 17...	1350	5.5	--	6.9	35.0	28.0	6.0
JUL 22...	1350	4.5	6.2	6.6	36.0	27.5	5.8
AUG 19...	1405	63	5.8	5.8	27.0	22.0	5.9
SEP 23...	1320	2.5	6.3	6.1	28.0	18.0	6.9

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 23...	36	20	7	4.8	230	6.0	<.02	<.020	.040	4.0
NOV 19...	38	30	1	1.8	90	7.0	<.02	.020	.020	4.5
DEC 17...	43	35	2	5.2	120	5.0	.32	<.020	.060	6.0
JAN 21...	99	40	5	3.3	40	16	.06	<.020	.050	10
FEB 18...	98	50	7	1.4	230	5.0	.12	.040	.070	12
MAR 18...	70	40	5	1.1	40	8.0	<.02	<.020	.090	10
APR 22...	56	150	4	1.4	4300	4.0	.08	.060	.200	20
MAY 20...	54	100	3	1.0	--	8.0	.14	<.020	.140	12
JUN 17...	95	80	3	.8	40	23	.08	<.020	.230	10
JUL 22...	55	40	2	.7	40	14	.02	.020	.100	7.0
AUG 19...	53	160	5	1.9	<30	4.0	.06	.060	.210	20
SEP 23...	53	140	3	.6	105	7.0	.09	.040	.100	12

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.

LOCATION.—Lat 32°04'42", long 82°10'39", Tattnall County, Hydrologic Unit 03070107, on downstream side of pier near center of span of bridge on State Highway 56, 0.5 mi (0.8 km) downstream from Brazells Creek, 1.5 mi (2.4 km) downstream from Rocky Creek, 3.5 mi (5.6 km) west of Reidsville, 6 mi (9.7 km) downstream from Pendleton Creek, and 14 mi (22 km) upstream from mouth.

DRAINAGE AREA.—1,110 mi^2 (2,870 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—April 1903 to December 1907, April 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.—WSP 822: Drainage area. WSP 892: 1938(M). WSP 1504: 1905.

GAGE.—Water-stage recorder. Datum of gage is 73.8 ft (22.49 m), National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Feb. 15, 1941, nonrecording gage at same site, at different datum June 13, 1903, to Dec. 31, 1907, and at same datum May 25, 1937, to Feb. 15, 1941.

REMARKS.—Records good.

AVERAGE DISCHARGE.—48 years, 984 ft^3/s (27.9 m^3/s), 12.04 in/yr (306 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 24,400 ft^3/s (691 m^3/s) Mar. 6, 1966, gage height, 23.34 ft (7.114 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Sept. 12, 13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known, 28.4 ft (8.66 m) in January 1925, from information furnished by Georgia Department of Transportation; discharge, 47,000 ft^3/s (1,330 m^3/s).

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 3,800 ft^3/s (108 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 5	0900	*3800	108	12.28	3.743

Minimum discharge, 29 ft^3/s (0.82 m^3/s) July 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	54	64	120	102	600	1060	396	55	66	57	246
2	46	55	66	115	120	563	2210	344	51	62	65	244
3	51	60	68	114	122	522	3110	298	51	60	63	207
4	52	71	73	110	126	487	3470	252	48	58	65	174
5	64	84	73	106	129	520	3750	211	49	58	63	129
6	83	90	73	102	128	624	3570	179	52	55	58	108
7	98	86	72	102	129	706	3360	170	50	52	55	95
8	98	80	68	100	133	745	3130	176	51	51	73	88
9	85	72	67	101	136	796	2680	215	56	48	276	83
10	74	66	66	106	140	862	2270	211	57	46	462	74
11	64	60	65	108	194	892	1960	183	60	46	626	68
12	57	57	63	108	301	871	1630	156	72	43	784	62
13	50	56	62	108	432	800	1330	134	70	42	676	57
14	46	55	62	108	456	714	1110	118	89	45	488	53
15	43	54	62	104	520	631	968	105	96	43	466	49
16	40	53	63	100	648	566	850	93	114	39	460	48
17	38	51	66	96	809	513	767	85	128	37	350	48
18	36	50	66	93	999	484	694	78	110	36	270	47
19	34	50	67	90	1160	508	616	72	94	33	214	46
20	32	49	71	87	1240	603	538	78	82	33	195	45
21	31	50	73	86	1160	660	527	74	77	37	182	45
22	30	51	72	85	1000	718	579	71	68	39	180	44
23	30	50	78	83	890	839	645	68	76	36	182	43
24	33	53	83	83	844	963	677	64	84	34	215	42
25	33	54	86	86	815	1010	679	59	95	37	324	39
26	32	56	102	84	766	998	627	55	80	35	354	38
27	30	59	112	81	700	988	555	68	70	32	328	36
28	30	60	121	86	642	952	498	100	96	31	278	34
29	32	60	127	86	---	882	475	83	94	31	254	32
30	41	62	125	93	---	804	448	68	74	29	272	31
31	50	---	121	99	---	774	---	58	---	43	214	---
TOTAL	1504	1808	2437	3030	14841	22595	44783	4322	2249	1337	8549	2355
MEAN	48.5	60.3	78.6	97.7	530	729	1493	139	75.0	43.1	276	78.5
MAX	98	90	127	120	1240	1010	3750	396	128	66	784	246
MIN	30	49	62	81	102	484	448	55	48	29	55	31
CFSM	.04	.05	.07	.09	.48	.66	1.35	.13	.07	.04	.25	.07
IN.	.05	.06	.08	.10	.50	.76	1.50	.14	.08	.04	.29	.08

CAL YR 1980 TOTAL 357248 MEAN 976 MAX 17600 MIN 24 CFSM .88 IN 11.97
WTR YR 1981 TOTAL 109810 MEAN 301 MAX 3750 MIN 29 CFSM .27 IN 3.68

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
22...	1000	30	20.0	3	.24
DEC					
03...	1145	69	10.5	4	.75
JAN					
20...	1200	87	6.0	4	.94
MAR					
03...	1655	514	14.5	6	8.3
APR					
16...	0925	875	14.5	5	12
MAY					
20...	1315	78	--	7	1.5
JUN					
29...	1650	89	28.0	7	1.7
JUL					
21...	1005	35	29.5	6	.57
AUG					
19...	0915	215	25.0	13	7.5
SEP					
22...	0945	44	22.0	4	.48

02225990 ALTAMAHA RIVER NEAR JESUP, GA.

LOCATION.--Lat 31°39'59", long 81°50'19", Wayne-Long County line, Hydrologic Unit 03070106, at bridge on U.S. Highways 25, 82, and 301, 5 mi (8.0 km) northeast of Jesup.

DRAINAGE AREA.--13,600 mi^2 (35,200 km^2), approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT									
08...	1300	4300	123	122	--	7.6	28.0	21.5	8.0
NOV									
05...	1400	2980	123	125	7.4	7.8	20.0	19.0	8.4
DEC									
17...	1300	4460	109	111	7.4	7.5	13.0	11.5	10.6
JAN									
28...	1315	2880	130	128	7.4	7.7	15.0	11.0	10.7
FEB									
19...	1330	12800	--	66	6.5	6.8	23.0	12.0	9.4
MAR									
18...	1300	9080	--	81	6.8	7.1	19.5	14.0	8.6
APR									
08...	1400	28600	58	54	6.3	6.6	22.5	19.0	6.4
MAY									
06...	1215	5520	--	96	7.3	7.6	24.5	24.0	7.3
JUN									
04...	1115	3860	--	123	7.6	7.5	28.5	29.0	6.6
JUL									
08...	1300	2330	129	125	7.9	7.7	33.0	31.0	7.1
AUG									
12...	1130	3250	--	127	--	7.4	28.0	30.0	6.0
SEP									
09...	1130	2640	--	139	7.8	7.6	27.0	28.5	6.0

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT											
08...	40	18	.4	30	31	22	.54	<.020	.100	2.5	<.50
NOV											
05...	20	6	.4	40	39	8	.51	.020	.060	2.5	<1.0
DEC											
17...	25	9	.7	40	30	11	.38	.020	.090	2.0	<.50
JAN											
28...	20	8	.3	<30	37	2	.48	.040	.050	<1.0	<.50
FEB											
19...	120	60	2.1	90	12	64	.33	.040	.150	6.0	.70
MAR											
18...	50	19	1.2	70	20	22	.21	<.020	.060	4.2	.60
APR											
08...	160	17	1.0	90	11	4	.04	<.020	.040	12	1.5
MAY											
06...	45	17	.7	430	30	19	.34	<.020	.070	5.0	<.50
JUN											
04...	30	16	.5	<30	32	18	.37	<.020	.060	5.0	.30
JUL											
08...	10	8	1.5	<30	37	3	.18	<.020	.030	3.5	.30
AUG											
12...	40	17	1.5	40	31	33	.43	.050	.100	6.0	<.50
SEP											
09...	30	8	.7	<30	38	7	.34	.090	.080	4.2	<1.0

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.

LOCATION.--Lat 31°39'16", long 81°49'41", Wayne-Long County line, Hydrologic Unit 03070106, on right bank 60 ft (18 m) downstream from Seaboard Coast Line Railroad bridge at Doctortown, 4.5 mi (7.2 km) northeast of Jesup, and at mile 64.5 (103.8 km).

DRAINAGE AREA.--13,600 mi^2 (35,200 km^2), approximately.

PERIOD OF RECORD.--October 1931 to current year. Gage-heights collected at same site since 1925 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.48 ft (7.462 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 5, 1934, nonrecording gage, and Sept. 5, 1934, to Sept. 30, 1975, water-stage recorder at same site at datum 4.0 ft (1.22 m) higher.

REMARKS.--Records good. Records of chemical analyses for the water years 1967-77 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--50 years, 13,730 ft^3/s (389 m^3/s), 13.71 in/yr (348 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 178,000 ft^3/s (5,040 m^3/s) Apr. 18, 1936, gage height, 16.03 ft (4.886 m), present datum; minimum, 1,430 ft^3/s (40.5 m^3/s) Oct. 27, 28, Nov. 1, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1800, 18.6 ft (5.67 m), present datum, Jan. 23, 1925, discharge, 300,000 ft^3/s (8,500 m^3/s), from rating curve extended above 180,000 ft^3/s (5,100 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 30,000 ft^3/s (850 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 26	0200	*37800	1070	11.59	3.533
Apr. 12	1300	33300	943	11.26	3.432

Minimum discharge, 2,160 ft^3/s (61.2 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2790	2680	4290	3540	2900	34000	9780	7090	3280	2810	2640	3090
2	2810	2760	4390	3480	3020	32000	11600	6700	3530	2680	2660	3020
3	2830	2840	4490	3430	3150	29400	14100	6300	3730	2550	2750	2960
4	3130	2910	4540	3560	3330	26100	16900	5970	3850	2460	2710	2880
5	3670	2970	4570	3740	3780	23400	21000	5720	3770	2410	2750	2810
6	3860	3000	4560	3900	4180	20100	24900	5500	3570	2350	2810	2740
7	3940	2970	4530	4120	4420	17700	27100	5310	3620	2300	2840	2640
8	4280	2910	4480	4250	4560	16000	28500	4890	3810	2340	2880	2580
9	4470	2870	4270	4250	4690	14800	29800	4580	3890	2420	2950	2650
10	4260	2850	3920	4190	4790	13800	31100	4480	3910	2430	3000	2720
11	3890	2850	3670	4130	5120	13100	32500	4450	3930	2430	3140	2760
12	3590	2890	3590	4190	5390	12800	33100	4370	4310	2510	3250	2800
13	3370	2930	3690	4240	5610	12600	32300	4380	5030	2560	3420	2810
14	3240	2920	3660	4250	6240	12500	30600	4290	5670	2580	3670	2770
15	3130	2910	3790	4120	7330	12200	28400	4120	5870	2570	3750	2730
16	3030	2910	4160	4000	8370	11800	26100	4070	5860	2540	3740	2690
17	2950	2920	4440	3980	9450	10700	23700	4140	5610	2540	3650	2660
18	2870	2880	4520	3830	11000	9230	20700	4190	5180	2570	3580	2570
19	2780	2820	4490	3570	12700	8280	17200	4150	4750	2570	3530	2520
20	2690	2810	4500	3360	14800	7910	13000	4070	4330	2510	3490	2520
21	2620	2880	4460	3240	17300	7880	9620	3940	4010	2530	3430	2520
22	2580	2950	4250	3140	21000	8160	8270	3700	3730	2510	3330	2540
23	2600	3130	4240	3040	27500	8580	7680	3520	3510	2490	3240	2580
24	2650	3430	4330	2970	34200	8880	7490	3420	3360	2710	3190	2550
25	2590	3580	4230	2910	37300	9330	7400	3230	3210	2710	3250	2500
26	2540	3650	4040	2870	37600	10000	7390	3030	3010	2620	3310	2460
27	2530	3800	4020	2850	36900	10700	7420	2960	2870	2570	3350	2440
28	2550	3950	4020	2880	35600	10900	7460	2910	2800	2530	3340	2390
29	2590	4090	3980	2880	---	10600	7420	2850	2740	2510	3330	2250
30	2650	4190	3800	2850	---	10200	7280	2820	2790	2620	3240	2170
31	2660	---	3620	2860	---	9810	---	2950	---	2670	3150	---
TOTAL	96140	93250	129540	110620	372230	443460	549810	134100	119530	78600	99370	79320
MEAN	3101	3108	4179	3568	13290	14310	18330	4326	3984	2535	3205	2644
MAX	4470	4190	4570	4250	37600	34000	33100	7090	5870	2810	3750	3090
MIN	2530	2680	3590	2850	2900	7880	7280	2820	2740	2300	2640	2170
CFSM	.23	.23	.31	.26	.98	1.05	1.35	.32	.29	.19	.24	.19
IN.	.26	.26	.35	.30	1.02	1.21	1.50	.37	.33	.21	.27	.22

CAL YR 1980 TOTAL 5341940 MEAN 14600 MAX 98400 MIN 2510 CFSM 1.07 IN 14.61
WTR YR 1981 TOTAL 2305970 MEAN 6318 MAX 37600 MIN 2170 CFSM .47 IN 5.31

02226010 ALTAMAHA RIVER NEAR GARDI, GA.

LOCATION.--Lat 31°37'24", long 81°45'55", Wayne-Long County line, Hydrologic Unit 03070106, 6 mi (10 km) northeast of Gardi, 7 mi (11 km) downstream from Doctortown, and 9 mi (14 km) upstream from Penholoway Creek.

DRAINAGE AREA.--13,600 mi^2 (35,200 km^2), approximately.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 08...	1230	4190	178	185	7.0	7.5	27.0	22.0	7.5
NOV 05...	1315	2960	208	212	7.4	7.8	20.0	19.0	8.0
DEC 17...	1230	4420	159	167	7.2	7.6	13.0	11.5	10.4
JAN 28...	1245	2890	211	213	7.4	7.6	18.0	11.5	10.4
FEB 19...	1300	12400	--	91	6.6	6.9	23.0	12.5	9.3
MAR 18...	1230	9560	--	106	6.9	7.2	19.5	14.0	8.3
APR 08...	1330	28200	59	54	6.4	6.7	22.5	19.0	6.3
MAY 06...	1145	5580	--	148	7.3	7.7	24.5	24.0	6.8
JUN 04...	1030	3810	--	195	7.5	7.5	28.5	29.0	6.4
JUL 08...	1200	2320	228	223	7.5	7.6	33.0	31.0	5.2
AUG 12...	1100	3220	--	204	--	7.5	28.0	30.5	5.1
SEP 09...	1100	2620	--	176	7.7	7.5	26.5	29.0	5.0

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 08...	60	15	21	.9	70	39	21
NOV 05...	60	8	19	.6	40	49	13
DEC 17...	45	9	13	.7	40	35	13
JAN 28...	60	7	22	1.5	40	47	4
FEB 19...	120	56	24	2.3	90	15	67
MAR 18...	70	18	18	1.6	<30	23	17
APR 08...	120	18	32	1.2	40	11	5
MAY 06...	70	16	19	1.2	40	38	21
JUN 04...	60	17	25	.9	<30	40	17
JUL 08...	80	10	--	2.4	<30	50	5
AUG 12...	70	16	--	2.2	<30	40	28
SEP 09...	50	9	--	1.9	<35	41	6

02226010 ALTAMAHA RIVER NEAR GARDI, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT						
08...	.47	.020	.44	.120	6.5	1.5
NOV						
05...	.54	.040	.29	.100	7.0	1.5
DEC						
17...	.36	.040	.30	.120	4.0	.70
JAN						
28...	.42	.040	.30	.090	6.0	2.0
FEB						
19...	.34	.040	.40	.150	9.0	1.1
MAR						
18...	.21	.020	.40	.060	6.0	1.1
APR						
08...	.06	.030	.30	.060	13	1.5
MAY						
06...	.34	.040	.30	.090	8.0	1.4
JUN						
04...	.32	.040	.10	.090	10	1.5
JUL						
08...	.19	.060	.30	.090	11	2.7
AUG						
12...	.43	.080	--	.120	6.5	1.6
SEP						
09...	.40	.230	--	.080	6.4	1.2

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.

LOCATION.—Lat 31°34'00", long 81°50'18", Wayne County, Hydrologic Unit 030/0106, on downstream side of bridge on U.S. Highway 341, 4 mi (6.4 km) southeast of Jesup, and about 9.5 mi (15.3 km) upstream from mouth.
DRAINAGE AREA.—210 mi^2 (540 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—July 1958 to current year.
GAGE.—Water-stage recorder. Datum of gage is 19.09 ft (5.819 m) National Geodetic Vertical Datum of 1929. Since May 6, 1966, auxiliary water-stage recorder at highway bridge, 2.5 mi (4.0 km) downstream.
REMARKS.—Records good except those below 20 ft^3/s (0.57 m^3/s), which are fair.
AVERAGE DISCHARGE.—23 years, 201 ft^3/s (5.69 m^3/s), 13.00 in/yr (330 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 4,420 ft^3/s (125 m^3/s) Sept. 30, 1979, gage height, 14.96 ft (4.560 m); no flow at times most years.
EXTREMES FOR CURRENT YEAR.—Maximum discharge, 392 ft^3/s (11.1 m^3/s) Apr. 3; maximum gage height, 9.65 ft (2.941 m) Apr. 3. No peaks above base of 1,100 ft^3/s (31.2 m^3/s); minimum daily discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.4	5.9	5.8	3.4	63	142	.50	.00	.00	4.0	.05
2	.55	4.4	5.0	5.6	4.2	56	282	.36	.18	.13	3.4	.00
3	.11	3.1	4.4	4.8	6.2	51	384	.24	6.9	.16	3.5	.00
4	.01	2.1	5.0	3.6	6.1	43	375	.21	6.2	.07	3.5	.00
5	.00	1.9	6.5	5.1	5.9	60	342	.16	2.8	.05	1.7	.00
6	.00	1.6	7.6	3.3	5.9	80	299	.16	1.4	.09	.89	.00
7	.00	.91	8.4	4.0	6.6	81	240	5.8	1.2	.00	.49	.00
8	.00	.57	10	5.5	6.8	77	185	12	5.5	.00	.21	.00
9	.00	.44	12	5.0	6.1	68	145	6.6	6.9	.00	.17	.00
10	.00	.33	13	4.6	5.4	61	119	4.5	4.2	.07	.55	.00
11	.00	.28	17	4.3	28	55	101	2.3	2.5	.02	.64	.00
12	.00	.21	18	4.0	70	48	85	1.1	3.5	.00	.54	.00
13	.00	.17	15	3.6	92	41	70	.55	19	.57	.85	.00
14	.00	.16	14	3.5	90	42	60	.40	17	.15	9.5	.00
15	.00	.19	12	3.6	77	30	50	.18	8.6	.00	15	.00
16	.00	.18	10	3.5	69	26	41	.05	3.1	.00	6.3	.00
17	.00	.22	9.5	3.0	69	23	33	.01	1.0	.00	2.3	.00
18	.00	.25	8.6	2.6	74	23	25	.00	.70	.02	.60	.00
19	.00	.23	7.5	2.4	95	32	19	.00	2.1	.74	.16	.00
20	.00	.20	6.7	2.4	116	43	13	.00	1.4	.27	.00	.03
21	.00	.22	6.0	4.0	113	45	10	.07	.90	.72	.00	.00
22	.00	.19	4.8	3.4	100	54	9.8	.05	.50	.75	.00	.00
23	.38	.27	4.7	3.5	91	99	8.2	.00	.26	.46	.00	.00
24	2.5	1.5	5.6	3.5	87	135	7.6	.00	.14	.22	.12	.00
25	2.6	4.1	5.2	3.4	86	149	8.0	.00	.04	.07	.17	.00
26	.89	4.6	4.9	3.5	83	135	4.8	.00	.01	.02	.07	.00
27	.35	7.8	4.8	3.5	77	117	2.9	.16	.12	.00	.05	.00
28	.34	9.2	4.5	4.5	70	100	1.8	1.3	.03	.00	.26	.00
29	.79	8.0	5.6	5.5	---	84	1.1	.85	.00	.00	.54	.00
30	1.7	7.1	6.1	4.7	---	81	.75	.14	.00	.37	.42	.00
31	2.5	---	5.9	4.3	---	107	---	.02	---	3.3	.14	---
TOTAL	13.92	62.82	254.2	124.0	1543.6	2109	3064.95	37.71	96.18	8.25	56.07	.08
MEAN	.45	2.09	8.20	4.00	55.1	68.0	102	1.22	3.21	.27	1.81	.003
MAX	2.6	9.2	18	5.8	116	149	384	12	19	3.3	15	.05
MIN	.00	.16	4.4	2.4	3.4	23	.75	.00	.00	.00	.00	.00
CFSM	.002	.01	.04	.02	.26	.32	.49	.006	.02	.001	.009	.000
IN.	.00	.01	.05	.02	.27	.37	.54	.01	.02	.00	.01	.00

CAL YR 1980 TOTAL 55393.19 MEAN 151 MAX 3140 MIN .00 CFSM .72 IN 9.81
WTR YR 1981 TOTAL 7370.78 MEAN 20.2 MAX 384 MIN .00 CFSM .10 IN 1.31

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—January 1972 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
08...	1130	.00	6.0	6.0	31.0	16.5	6.9
NOV							
05...	1200	1.8	4.2	4.2	21.5	18.0	6.4
DEC							
17...	1130	9.5	4.4	4.2	14.0	9.0	10.5
JAN							
28...	1145	4.1	4.1	4.3	19.0	10.5	10.3
FEB							
19...	1200	94	3.8	4.0	23.0	15.5	7.5
MAR							
18...	1145	23	3.8	4.2	17.5	13.5	8.2
APR							
08...	1230	183	3.8	4.0	22.0	17.0	6.9
MAY							
06...	1045	.16	4.4	4.5	25.5	21.0	3.6
JUN							
04...	0930	6.4	4.3	4.2	31.0	26.0	6.7
JUL							
08...	1100	.00	5.5	5.6	32.0	29.0	2.8
AUG							
12...	0945	.50	--	4.5	29.5	27.0	3.0
SEP							
09...	1000	.00	6.4	6.2	29.0	25.0	3.2

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT									
08...	76	300	5	--	2.2	230	--	--	--
NOV									
05...	80	180	2	2.2	2.3	<30	14	14	2.5
DEC									
17...	69	180	2	--	1.8	70	--	--	--
JAN									
28...	62	160	5	--	1.2	<30	--	--	--
FEB									
19...	84	160	6	--	2.1	150	--	--	--
MAR									
18...	75	200	5	--	1.3	40	--	--	--
APR									
08...	80	240	2	--	1.1	<30	--	--	--
MAY									
06...	70	320	2	--	2.2	<30	--	--	--
JUN									
04...	73	250	7	--	1.4	40	--	--	--
JUL									
08...	64	240	5	--	4.2	<30	--	--	--
AUG									
12...	63	200	4	--	2.9	230	--	--	--
SEP									
09...	80	240	5	--	2.5	40	--	--	--

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 08...	--	--	--	9.0	--	--	--	--	--
NOV 05...	1.8	4.3	1.1	<1.0	17	6.5	.1	11	93
DEC 17...	--	--	--	<1.0	--	--	--	--	--
JAN 28...	--	--	--	--	--	--	--	--	--
FEB 19...	--	--	--	--	--	--	--	--	--
MAR 18...	--	--	--	--	--	--	--	--	--
APR 08...	--	--	--	<1.0	--	--	--	--	--
MAY 06...	--	--	--	<1.0	--	--	--	--	--
JUN 04...	--	--	--	<1.0	--	--	--	--	--
JUL 08...	--	--	--	4.0	--	--	--	--	--
AUG 12...	--	--	--	--	--	--	--	--	--
SEP 09...	--	--	--	7.0	--	--	--	--	--

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 08...	--	<.02	.030	--	--	--	.310	--	32
NOV 05...	.45	<.02	.040	.55	.59	.60	.020	.010	32
DEC 17...	--	<.02	.020	--	--	--	.030	--	36
JAN 28...	--	<.02	.020	--	--	--	<.020	--	27
FEB 19...	--	<.02	.030	--	--	--	<.020	--	31
MAR 18...	--	<.02	<.020	--	--	--	<.020	--	32
APR 08...	--	<.02	.030	--	--	--	<.020	--	41
MAY 06...	--	<.02	.020	--	--	--	.040	--	44
JUN 04...	--	.02	.020	--	--	--	.030	--	28
JUL 08...	--	<.02	.030	--	--	--	.170	--	33
AUG 12...	--	<.02	.030	--	--	--	.140	--	22
SEP 09...	--	.05	.120	--	--	--	.400	--	28

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
NOV							
05...	500	0	1	3	10	3	750

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV							
05...	0	2	90	<.1	<.1	0	20

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
DEC					
03...	1540	4.4	12.5	8	.10
JAN					
21...	1355	4.2	7.5	7	.08
MAR					
04...	1750	41	15.5	6	.66
APR					
09...	1700	137	19.5	10	3.7
16...	1315	38	19.5	35	3.6
MAY					
21...	1410	.04	--	18	.00
AUG					
05...	1250	1.5	29.5	8	.03

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.

(National stream-quality accounting network station)
(Radiochemical program station)
(National Pesticide water monitoring program)

LOCATION.—Lat 31°25'37", long 81°36'20", Glynn-McIntosh County line, Hydrologic Unit 03070106, at Seaboard Coast Line Railroad bridge, 3 mi (5 km) northeast of Everett City, and 15 mi (24 km) northwest of Brunswick.

DRAINAGE AREA.—14,000 mi^2 (36,300 km^2), approximately.

PERIOD OF RECORD.—October 1969 to current year.

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: October 1969 to current year.
pH: November 1969 to current year.
WATER TEMPERATURES: October 1969 to current year.
DISSOLVED OXYGEN: April 1970 to current year.

REMARKS.—Prior to 1978, water-quality samples for the National stream-quality accounting network, Radiochemical program, and National Pesticide water monitoring program were collected at, and published for, the Altamaha River at Doctortown, Ga. (station number 02226000). Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: Maximum recorded, 304 micromhos Oct. 27, 1978; minimum recorded, 32 micromhos Apr. 9, 1973.
pH: Maximum recorded, 8.9 units Oct. 21, 22, 1971; minimum recorded, 5.3 units Dec. 12, 1976.
WATER TEMPERATURE: Maximum recorded, 33.5°C July 16-18, 1981; minimum recorded, 3.0°C Jan. 10, 11, 1970, Jan. 20, 21, 1977.
DISSOLVED OXYGEN: Maximum recorded, 12.3 mg/L Feb. 3, 10, 11, 1977; minimum recorded, 2.7 mg/L Oct. 8, 1977.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum, 244 micromhos Oct. 2; minimum, 52 micromhos April 10, 11.
pH: Maximum, 7.9 units July 17; minimum, 6.1 units Feb. 24-26, 28, Mar. 2.
WATER TEMPERATURE: Maximum, 33.5°C July 16-18; minimum, 5.0°C Jan. 13, 14.
DISSOLVED OXYGEN: Maximum, 12.2 mg/L Jan. 14, 18; minimum recorded, 3.8 mg/L July 22, 23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT									
08...	0830	3890	175	175	7.6	7.4	18.0	21.0	7.1
NOV									
05...	0930	2890	215	221	7.5	7.5	16.5	19.0	7.7
DEC									
17...	0930	4120	175	171	7.0	7.3	11.5	11.5	9.9
JAN									
28...	1000	2850	210	221	7.2	7.5	15.0	10.5	9.8
FEB									
19...	0930	10700	110	105	6.7	6.9	16.0	12.5	9.1
MAR									
18...	0930	10900	97	96	6.6	6.9	13.0	14.0	8.1
APR									
08...	1000	26900	70	65	6.8	6.6	23.0	18.5	6.0
MAY									
06...	0800	5720	140	144	6.9	7.4	22.0	23.5	6.9
JUN									
04...	0800	3730	185	186	7.2	7.4	32.0	28.5	5.4
JUL									
08...	0900	2300	225	228	7.5	7.5	28.0	30.5	5.0
AUG									
12...	0830	3140	215	210	7.1	7.4	26.0	30.5	5.2
SEP									
09...	0800	2580	170	166	7.4	7.8	28.0	28.5	5.3

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT 08...	50	10	1.0	.8	90	K50	K8200	35	4.0	11
NOV 05...	50	6	2.0	.7	40	50	43	41	.00	13
DEC 17...	50	7	1.7	1.8	<30	K18	K21	36	4.0	11
JAN 28...	60	7	2.6	1.1	40	35	24	42	2.0	13
FEB 19...	80	39	19	2.2	90	75	190	21	9.0	5.9
MAR 18...	80	15	9.9	1.7	<30	44	250	23	2.0	6.6
APR 08...	120	14	19	1.3	90	110	120	16	.00	4.4
MAY 06...	80	17	7.5	1.7	40	K8	48	29	2.0	8.7
JUN 04...	60	14	13	.7	65	13	41	37	.00	11
JUL 08...	60	10	8.5	1.2	<30	K2	190	37	.00	11
AUG 12...	80	9	10	1.7	<30	K17	54	35	.00	9.7
SEP 09...	60	8	5.6	1.6	<30	15	260	34	.00	10

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)
OCT 08...	1.9	20	2.2	31	22	13	.2	12	130
NOV 05...	2.1	26	2.2	46	22	20	.1	12	128
DEC 17...	2.0	21	2.0	32	19	15	.1	13	118
JAN 28...	2.2	27	2.0	40	25	20	.1	14	138
FEB 19...	1.5	10	1.9	12	16	8.7	<.1	11	84
MAR 18...	1.6	9.6	1.9	21	11	8.9	<.1	12	77
APR 08...	1.2	6.3	1.7	16	7.2	6.1	<.1	9.5	75
MAY 06...	1.7	16	2.1	27	14	13	.1	13	99
JUN 04...	2.2	24	2.5	39	23	15	.2	12	128
JUL 08...	2.4	26	2.7	47	20	25	.2	13	151
AUG 12...	2.6	30	2.6	42	25	17	.2	14	147
SEP 09...	2.1	19	2.0	39	17	12	.2	11	111

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
OCT									
08...	103	1370	.50	.030	.26	.29	.00	.39	.79
NOV									
05...	127	999	.46	.090	.31	.40	.20	.20	.86
DEC									
17...	104	1310	.40	.030	.18	.21	.00	.22	.61
JAN									
28...	130	1060	.49	.050	.17	.22	.08	.14	.71
FEB									
19...	64	2430	.41	.050	.40	.45	.18	.27	.86
MAR									
18...	65	2270	.17	.020	.26	.28	.01	.27	.45
APR									
08...	47	5450	.04	.060	.29	.35	.00	.36	.39
MAY									
06...	85	1530	.30	.020	.51	.53	.18	.35	.83
JUN									
04...	114	1290	.20	.060	.33	.39	.13	.26	.59
JUL									
08...	130	938	.27	.040	.35	.39	.03	.36	.66
AUG									
12...	128	1250	.45	.070	.42	.49	.16	.33	.94
SEP									
09...	98	773	.31	.090	.34	.43	.00	.50	.74

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT									
08...	.090	.050	6.0	3.3	.4	--	45	473	97
NOV									
05...	.100	.070	5.9	--	--	2300	8	62	90
DEC									
17...	.090	.070	5.1	--	--	--	12	133	97
JAN									
28...	.090	.060	6.0	4.7	.5	--	12	92	84
FEB									
19...	.100	.080	8.1	--	--	--	54	1560	94
MAR									
18...	.050	.030	6.8	--	--	1800	12	353	98
APR									
08...	.080	.040	14	13	.4	--	20	1450	66
MAY									
06...	.090	.040	5.6	--	--	530	24	371	96
JUN									
04...	.050	.040	6.5	--	--	2700	21	211	99
JUL									
08...	.080	.050	8.0	5.9	.4	4100	17	106	83
AUG									
12...	.080	.050	7.4	--	--	8900	12	102	83
SEP									
09...	.060	.050	5.6	--	--	2400	--	--	--

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
OCT										
08...	1	1	100	30	0	3	10	10	0	0
JAN										
28...	1	1	100	30	1	2	20	<10	1	1
APR										
08...	0	0	<50	40	0	3	<10	<10	0	0
JUL										
08...	3	0	100	30	1	1	10	10	1	1

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
OCT									
08...	5	4	640	120	3	0	90	30	.1
JAN									
28...	1	0	590	200	0	0	80	50	.2
APR									
08...	3	1	1000	570	9	0	70	40	.2
JUL									
08...	8	5	530	210	6	2	80	40	.2

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT									
08...	<.1	2	1	0	0	0	0	30	4
JAN									
28...	.1	1	1	0	0	3	--	30	--
APR									
08...	<.1	2	0	0	0	0	0	60	10
JUL									
08...	<.1	7	6	0	0	0	0	20	5

DATE	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
DEC										
17...	1.3	.9	.6	.4	4.0	.6	3.8	.6	.04	.06

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	241	238	218	214	167	160	181	171	213	195	67	63
2	244	241	217	216	160	156	177	172	214	211	67	64
3	242	237	216	213	157	155	182	177	213	207	70	65
4	237	227	214	212	154	149	---	---	207	200	70	66
5	226	210	217	213	150	147	187	180	200	192	71	67
6	209	190	218	214	149	145	182	176	193	180	74	69
7	188	172	214	207	147	144	182	174	181	170	78	73
8	171	167	208	204	146	141	174	156	170	152	82	78
9	179	169	207	205	147	143	157	147	152	147	86	81
10	186	180	208	206	152	148	147	142	155	145	90	77
11	186	172	209	205	161	154	142	139	156	149	92	88
12	173	166	208	204	167	161	152	140	151	145	95	91
13	175	169	208	205	172	165	166	153	151	146	96	94
14	182	174	206	202	200	168	156	155	146	143	97	93
15	200	183	204	197	196	183	156	152	143	132	97	93
16	205	200	198	196	185	176	157	154	136	121	98	95
17	209	206	198	196	177	169	161	157	122	116	97	95
18	212	209	200	194	169	161	169	160	116	106	99	97
19	213	211	202	199	157	152	182	168	107	99	105	98
20	218	212	204	201	159	150	187	183	99	90	112	105
21	221	217	203	202	158	157	194	187	94	88	119	112
22	229	221	204	200	157	151	195	193	89	82	119	116
23	229	220	200	193	155	148	200	195	84	77	116	114
24	228	223	199	188	147	130	206	200	80	73	114	112
25	228	223	193	191	130	108	211	206	75	69	113	109
26	229	225	191	187	107	102	213	212	73	67	112	107
27	227	221	190	183	102	100	213	211	69	64	109	103
28	226	223	195	183	110	100	210	208	68	63	105	102
29	225	224	184	174	111	104	209	200	---	---	102	97
30	223	219	174	167	163	113	211	196	---	---	100	98
31	221	217	---	---	181	167	209	196	---	---	100	97
MONTH	244	166	218	167	200	100	213	139	214	63	119	63

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	101	98	127	124	211	205	214	207	208	196	204	184
2	100	96	130	127	210	194	215	210	197	190	214	204
3	100	95	133	130	194	187	221	214	191	185	214	208
4	99	93	137	134	187	175	226	220	187	183	210	208
5	93	83	142	136	175	171	225	220	194	182	214	210
6	83	76	145	142	175	173	220	212	196	193	224	215
7	78	69	144	143	181	174	218	213	199	194	219	210
8	68	58	153	143	180	177	220	217	203	198	219	171
9	60	54	154	139	184	176	224	219	213	203	168	153
10	58	52	143	135	187	183	229	224	208	203	167	154
11	56	52	154	144	189	186	231	228	204	201	171	158
12	55	53	162	154	188	183	238	229	205	202	166	138
13	59	54	165	162	184	178	230	207	202	195	149	141
14	57	53	169	164	177	160	204	184	195	183	145	140
15	58	53	173	168	159	142	196	190	184	174	145	140
16	61	56	176	172	143	138	212	196	174	166	153	143
17	66	59	177	171	141	129	224	212	177	171	146	121
18	75	66	173	171	129	123	225	222	179	176	150	121
19	82	75	173	171	130	123	223	220	179	174	162	144
20	89	82	172	166	143	131	223	210	179	174	169	157
21	100	90	170	166	147	143	217	207	179	176	186	167
22	106	99	179	170	148	145	215	213	185	180	209	186
23	111	106	179	176	152	148	230	214	187	184	210	206
24	118	112	183	178	166	151	234	230	186	184	209	207
25	123	118	191	183	178	166	229	224	187	184	209	206
26	124	123	196	186	184	178	222	221	188	186	223	208
27	127	123	198	194	190	183	228	221	187	183	227	220
28	127	124	214	196	195	189	229	218	184	181	226	220
29	126	123	191	185	200	195	219	213	182	177	238	222
30	126	123	202	186	207	199	215	210	181	172	237	228
31	---	---	210	202	---	---	215	207	185	177	---	---
MONTH	127	52	214	124	211	123	238	184	213	166	238	121
YEAR	244	52										

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.3	7.2	7.4	7.2	7.3	7.2	7.3	7.2	7.6	7.4	6.3	6.2
2	7.3	7.2	7.3	7.2	7.3	7.2	7.3	7.2	7.7	7.3	6.4	6.1
3	7.3	7.2	7.4	7.3	7.3	7.2	7.2	7.1	7.5	7.3	6.3	6.3
4	7.3	7.2	7.4	7.3	7.3	7.2	---	---	7.5	7.3	6.3	6.2
5	7.3	7.2	7.4	7.2	7.3	7.2	7.5	7.4	7.5	7.2	6.3	6.3
6	7.3	7.3	7.4	7.2	7.3	7.2	7.6	7.4	7.4	7.3	6.4	6.3
7	7.3	7.2	7.4	7.2	7.3	7.1	7.6	7.4	7.4	7.3	6.4	6.3
8	7.3	7.1	7.4	7.2	7.3	7.1	7.6	7.4	7.5	7.3	6.5	6.3
9	7.3	7.2	7.4	7.2	7.3	7.2	7.6	7.4	7.5	7.2	6.5	6.4
10	7.3	7.2	7.4	7.2	7.3	7.2	7.5	7.3	7.5	7.3	6.5	6.4
11	7.3	7.1	7.4	7.3	7.3	7.1	7.5	7.3	7.5	7.3	6.6	6.5
12	7.3	7.1	7.4	7.3	7.3	7.1	7.5	7.3	7.4	7.2	6.6	6.5
13	7.3	7.1	7.4	7.3	7.3	7.2	7.6	7.2	7.3	7.2	6.6	6.5
14	7.3	7.1	7.4	7.3	7.4	7.2	7.6	7.3	7.2	7.2	6.7	6.6
15	7.4	7.2	7.4	7.2	7.4	7.2	7.6	7.4	7.2	7.2	6.7	6.6
16	7.4	7.2	7.3	7.3	7.3	7.2	7.5	7.3	7.3	7.1	6.7	6.6
17	7.4	7.3	7.3	7.2	7.4	7.2	7.5	7.3	7.1	7.0	6.8	6.7
18	7.4	7.3	7.3	7.1	7.3	7.2	7.6	7.3	7.0	6.8	7.0	6.7
19	7.4	7.2	7.3	7.2	7.3	7.2	7.6	7.3	6.8	6.6	6.9	6.8
20	7.4	7.3	7.3	7.2	7.3	7.2	7.5	7.4	6.6	6.5	6.9	6.8
21	7.3	7.3	7.3	7.2	7.3	7.2	7.5	7.3	6.5	6.4	6.9	6.8
22	7.4	7.2	7.3	7.2	7.3	7.2	7.5	7.4	6.5	6.3	7.0	6.9
23	7.5	7.3	7.4	7.2	7.3	7.1	7.7	7.4	6.4	6.3	6.9	6.8
24	7.4	7.2	7.4	7.2	7.4	7.1	7.7	7.4	6.3	6.1	6.9	6.7
25	7.4	7.2	7.3	7.2	7.4	7.1	7.7	7.4	6.2	6.1	6.9	6.7
26	7.4	7.2	7.3	7.2	7.2	7.1	7.6	7.4	6.3	6.1	6.9	6.7
27	7.3	7.1	7.3	7.1	7.2	7.1	7.5	7.4	6.3	6.2	6.8	6.7
28	7.3	7.2	7.3	7.1	7.2	7.1	7.5	7.4	6.3	6.1	6.7	6.7
29	7.3	7.2	7.3	7.1	7.3	7.1	7.5	7.4	---	---	6.6	6.6
30	7.3	7.2	7.3	7.2	7.3	7.2	7.5	7.4	---	---	6.6	6.5
31	7.3	7.3	---	---	7.4	7.2	7.5	7.4	---	---	6.6	6.5
MONTH	7.5	7.1	7.4	7.1	7.4	7.1	7.7	7.1	7.7	6.1	7.0	6.1

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.7	6.6	6.9	6.9	7.3	7.2	7.1	7.1	7.2	7.1	7.2	7.1
2	6.6	6.5	6.9	6.9	7.3	7.2	7.2	7.1	7.2	7.1	7.2	7.1
3	6.6	6.6	6.9	6.9	7.3	7.2	7.2	7.1	7.4	7.1	7.2	7.1
4	6.6	6.5	7.0	6.9	7.3	7.2	7.1	7.1	7.4	7.2	7.3	7.1
5	6.5	6.4	7.0	6.9	7.3	7.2	7.1	7.0	7.3	7.1	7.2	7.1
6	6.5	6.4	7.0	6.9	7.3	7.2	7.2	7.1	7.3	7.1	7.2	7.1
7	6.4	6.4	7.0	7.0	7.3	7.2	7.2	7.1	7.3	7.1	7.2	7.1
8	6.5	6.5	7.0	7.0	7.2	7.0	7.1	7.0	7.2	7.1	7.1	7.1
9	6.5	6.4	7.0	6.9	7.1	7.0	7.1	7.0	7.2	7.1	7.2	7.0
10	6.5	6.4	7.0	6.9	7.1	7.0	7.1	7.0	7.2	7.1	7.3	7.1
11	6.6	6.6	7.1	7.0	7.1	7.0	7.1	7.0	7.2	7.1	7.3	7.2
12	6.5	6.4	7.1	7.0	7.1	7.0	7.1	7.0	7.2	7.1	7.4	7.2
13	6.4	6.3	7.1	7.1	7.1	7.0	7.1	7.0	7.2	7.1	7.5	7.2
14	6.3	6.3	7.1	7.1	7.1	7.0	7.1	7.0	7.1	7.1	7.6	7.3
15	6.3	6.3	7.2	7.1	7.0	6.9	7.5	7.0	7.1	7.0	7.6	7.3
16	6.4	6.3	7.2	7.1	6.9	6.8	7.7	7.2	7.1	7.0	7.5	7.3
17	6.4	6.3	7.1	7.1	6.9	6.8	7.9	7.3	7.1	7.0	7.6	7.2
18	6.5	6.4	7.2	7.1	6.9	6.8	7.6	7.2	7.1	7.0	7.7	7.3
19	6.5	6.4	7.2	7.1	6.9	6.8	7.3	7.1	7.1	7.0	7.5	7.3
20	6.5	6.5	7.2	7.1	7.0	6.8	7.4	7.1	7.1	7.0	7.4	7.3
21	6.6	6.5	7.2	7.1	7.0	6.9	7.4	7.1	7.1	7.1	7.4	7.2
22	6.6	6.6	7.2	7.1	7.0	6.9	7.5	7.1	7.2	7.1	7.3	7.3
23	6.7	6.6	7.2	7.1	7.1	6.9	7.3	7.2	7.2	7.1	7.3	7.3
24	6.7	6.7	7.2	7.1	7.1	7.0	7.2	7.1	7.2	7.1	7.4	7.3
25	6.8	6.8	7.2	7.1	7.1	7.0	7.4	7.1	7.1	7.1	7.4	7.3
26	6.9	6.8	7.2	7.1	7.1	7.0	7.3	7.2	7.2	7.1	7.4	7.3
27	6.9	6.8	7.2	7.1	7.1	7.0	7.3	7.2	7.2	7.1	7.3	7.2
28	6.9	6.9	7.2	7.1	7.2	7.0	7.3	7.1	7.2	7.1	7.4	7.2
29	6.9	6.9	7.2	7.1	7.2	7.1	7.4	7.2	7.2	7.1	7.4	7.2
30	6.9	6.9	7.2	7.2	7.2	7.1	7.3	7.2	7.2	7.1	7.4	7.2
31	---	---	7.2	7.2	---	---	7.2	7.1	7.2	7.1	---	---
MONTH	6.9	6.3	7.2	6.9	7.3	6.8	7.9	7.0	7.4	7.0	7.7	7.0
YEAR	7.9	6.1										

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.0	25.0	19.0	18.0	13.0	11.5	10.5	8.5	11.5	10.0	15.5	14.0
2	25.0	24.5	19.0	18.0	14.0	12.5	11.0	8.5	13.0	11.5	16.5	15.0
3	25.0	23.5	19.5	18.5	13.5	12.5	---	---	11.5	10.0	16.0	15.0
4	24.0	23.0	20.0	19.0	13.0	12.0	---	---	10.0	9.0	16.0	15.0
5	24.0	22.5	20.0	18.5	13.0	12.0	9.0	8.0	10.0	8.5	17.0	15.5
6	23.0	21.5	19.0	18.0	13.0	12.0	9.0	7.5	9.5	9.0	16.5	16.0
7	22.0	21.0	18.5	17.0	13.0	12.0	9.0	8.5	10.0	9.0	16.0	15.0
8	22.0	20.5	18.5	17.0	13.0	12.0	9.0	7.5	10.5	9.5	15.5	14.5
9	22.5	21.0	18.5	17.0	14.0	12.5	8.5	7.5	11.0	9.0	15.5	14.5
10	23.0	21.5	19.0	17.5	14.5	13.5	8.5	7.0	12.0	10.0	15.5	14.5
11	23.5	22.0	18.0	17.0	14.5	13.5	8.0	7.0	12.5	11.5	15.5	14.5
12	24.0	22.0	17.5	16.0	14.5	12.5	7.0	6.0	11.5	10.0	15.5	14.5
13	23.0	21.5	16.5	15.5	13.5	12.5	6.5	5.0	11.0	10.0	15.5	14.5
14	22.5	21.0	17.0	16.0	13.5	12.5	6.5	5.0	10.5	10.0	15.5	14.0
15	22.5	21.0	17.5	16.5	13.0	12.0	8.0	6.0	11.0	10.0	16.0	14.5
16	22.5	21.0	17.5	17.0	12.5	12.0	8.0	6.5	12.0	10.5	15.5	14.5
17	23.0	22.0	17.5	16.5	12.5	11.5	7.5	6.5	12.5	11.5	15.0	14.0
18	23.5	22.5	17.0	16.5	12.0	11.0	7.5	6.0	13.0	12.5	15.0	14.0
19	24.0	23.0	16.0	15.5	12.0	11.0	7.0	6.0	13.5	12.5	15.5	14.5
20	24.5	23.5	15.5	14.5	12.0	11.0	7.5	6.5	14.5	13.0	15.0	14.0
21	23.5	23.0	15.0	14.0	11.5	10.0	8.0	7.5	15.0	13.0	14.5	14.0
22	23.0	22.5	14.0	13.0	10.0	9.5	8.5	8.0	15.0	13.0	14.5	14.0
23	22.5	21.5	14.5	13.5	9.5	9.0	9.0	8.0	15.5	14.0	14.0	13.5
24	21.5	20.0	15.0	14.5	10.0	8.5	10.0	8.0	14.5	13.5	14.0	13.0
25	20.5	19.0	15.0	14.5	9.5	8.5	10.0	8.0	14.0	13.0	14.5	13.0
26	20.0	18.0	14.5	14.0	8.0	7.5	10.5	8.5	15.0	13.5	15.0	13.5
27	19.0	17.5	14.5	14.0	7.5	7.0	10.5	9.0	15.0	13.5	15.5	14.5
28	19.0	18.5	14.5	13.0	7.0	7.0	11.0	10.0	15.5	13.5	16.5	15.0
29	19.5	18.5	13.5	12.5	8.0	7.0	11.5	10.0	---	---	17.0	16.0
30	19.5	19.0	13.0	12.0	8.5	7.5	11.5	10.0	---	---	17.0	16.5
31	19.0	18.5	---	---	10.0	8.5	11.0	10.5	---	---	18.0	17.0
MONTH	26.0	17.5	20.0	12.0	14.5	7.0	11.5	5.0	15.5	8.5	18.0	13.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.5	18.0	25.0	24.0	29.0	27.0	29.0	28.0	30.0	28.5	29.5	27.5
2	19.0	18.0	24.5	23.5	29.0	28.0	28.5	27.5	29.5	28.0	30.0	28.0
3	19.0	18.0	24.0	23.0	29.5	28.0	28.5	27.5	30.5	28.5	30.5	28.5
4	20.0	19.0	23.5	22.5	30.0	28.5	29.0	27.5	30.5	28.5	30.5	28.5
5	20.5	19.5	24.0	22.5	30.5	29.0	29.5	28.0	31.0	28.5	29.5	28.5
6	20.0	19.0	24.0	23.0	30.5	29.5	30.0	28.5	31.5	29.5	29.0	28.0
7	19.5	18.5	23.5	22.0	30.5	29.5	31.0	29.0	31.5	30.0	29.0	28.0
8	19.0	18.0	22.0	21.5	29.5	29.0	30.5	29.5	31.0	30.0	29.5	28.5
9	19.0	18.0	22.0	21.0	30.0	28.5	31.0	29.0	31.0	29.5	29.5	28.0
10	19.5	18.5	23.0	21.5	30.0	29.0	31.5	30.0	30.5	29.0	29.5	28.5
11	20.0	19.0	24.0	22.5	30.5	29.0	32.0	30.5	31.0	29.5	29.5	28.0
12	20.5	19.5	24.0	22.5	30.5	29.5	32.0	30.5	31.0	30.0	29.0	28.0
13	21.0	20.0	24.5	23.0	31.0	29.5	32.0	30.5	31.0	29.5	29.5	28.0
14	21.5	20.5	25.0	23.0	31.5	30.0	32.0	31.0	30.5	29.5	29.5	28.0
15	21.5	20.5	25.0	24.0	32.0	30.5	33.0	31.5	30.5	29.5	29.5	28.0
16	20.5	20.0	25.0	23.5	32.0	30.5	33.5	31.5	30.5	29.0	29.0	28.0
17	20.5	20.0	25.0	23.5	32.5	31.0	33.5	32.0	31.5	29.5	29.0	27.5
18	21.0	20.0	26.0	24.0	32.5	31.0	33.5	32.0	30.5	29.5	28.0	26.5
19	22.0	20.5	26.0	25.0	32.5	31.0	32.5	31.0	29.5	27.0	26.5	25.0
20	22.5	21.5	26.5	25.0	32.5	31.0	33.0	31.5	27.5	26.0	25.5	24.0
21	22.0	21.0	25.0	24.0	32.5	31.0	33.0	31.0	26.0	25.0	25.5	24.0
22	21.0	20.5	25.5	23.5	33.0	31.0	32.0	31.0	26.0	25.0	25.5	24.5
23	22.0	20.5	25.5	23.5	33.0	32.0	32.0	30.5	26.0	25.0	26.5	25.0
24	22.5	21.5	26.5	24.0	33.0	31.5	32.0	30.0	26.5	25.0	26.5	25.5
25	22.5	21.5	27.0	25.0	33.0	31.5	32.5	30.5	27.0	26.0	26.0	25.0
26	22.5	21.0	26.0	25.5	32.5	31.0	33.0	31.5	27.5	26.5	26.0	24.5
27	23.0	21.0	26.0	25.0	32.0	31.0	33.0	31.5	27.0	26.5	26.0	24.5
28	24.0	22.0	26.5	25.0	31.0	30.0	33.0	32.0	27.5	26.5	26.5	24.5
29	24.0	23.0	27.0	25.5	30.0	29.0	33.0	31.5	28.0	26.5	27.0	25.0
30	25.0	23.5	28.0	26.0	29.5	28.0	31.5	30.5	28.0	27.0	27.0	25.0
31	---	---	28.5	27.0	---	---	31.0	30.0	28.5	27.0	---	---
MONTH	25.0	18.0	28.5	21.0	33.0	27.0	33.5	27.5	31.5	25.0	30.5	24.0
YEAR	33.5	5.0										

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.0	5.7	7.8	7.5	10.4	10.2	10.9	10.2	9.7	9.3	7.8	7.3
2	6.0	5.6	7.9	7.5	10.4	10.2	10.2	9.4	10.2	9.4	7.7	7.2
3	6.1	5.7	8.0	7.7	10.5	10.1	---	---	10.6	9.5	7.5	7.1
4	6.3	5.9	7.9	7.6	10.6	10.3	---	---	10.6	9.9	7.6	7.3
5	6.6	6.1	7.7	7.1	10.7	10.3	10.1	9.6	10.9	10.2	7.6	7.1
6	6.9	6.5	8.0	7.3	10.8	10.4	10.5	10.1	10.9	10.6	7.2	6.9
7	7.1	6.7	8.4	8.1	10.9	10.4	10.5	10.2	10.9	10.6	7.2	7.0
8	7.1	6.7	8.7	8.5	10.7	9.6	10.7	10.4	10.6	10.1	7.3	6.9
9	7.0	6.6	8.9	8.5	10.2	9.4	10.9	10.5	10.7	10.0	7.4	7.1
10	6.8	6.5	9.1	8.7	9.5	8.7	11.2	10.7	10.6	10.3	7.4	7.2
11	6.5	6.3	9.0	8.7	9.1	8.6	11.4	10.9	10.7	10.4	7.4	7.1
12	6.5	6.1	9.2	8.8	9.3	8.6	11.6	11.1	10.8	10.4	7.4	7.1
13	6.7	6.2	9.4	9.0	9.5	8.8	12.1	11.2	11.1	10.7	7.4	7.2
14	7.3	6.2	9.4	9.1	9.2	8.8	12.2	11.5	11.1	10.8	7.7	7.2
15	7.2	6.7	9.3	8.8	9.5	9.0	12.1	11.6	11.3	10.5	7.5	7.3
16	7.1	6.8	9.1	8.9	9.6	9.1	11.9	11.5	11.1	10.9	8.2	7.2
17	7.0	6.6	9.1	8.8	10.0	9.4	12.1	11.5	11.0	10.4	8.1	7.8
18	6.8	6.5	9.1	8.5	10.1	9.6	12.2	11.6	10.3	9.9	8.4	8.0
19	6.6	6.4	9.4	8.8	10.3	9.7	11.9	11.5	9.8	9.1	8.0	7.6
20	6.6	6.3	9.4	9.1	10.3	9.7	11.6	11.2	9.2	8.5	8.1	7.5
21	6.5	6.2	9.7	9.2	10.3	9.9	11.6	10.8	8.5	8.0	8.3	7.8
22	6.6	6.1	10.0	9.5	10.8	10.2	11.1	10.6	8.3	7.5	8.6	8.2
23	7.1	6.4	10.1	9.7	10.9	10.3	11.7	10.6	7.9	7.2	8.4	8.1
24	6.9	6.7	10.1	9.6	11.1	10.5	11.5	10.4	7.7	7.3	8.6	8.1
25	---	---	9.9	9.4	11.6	10.6	10.9	10.2	7.9	7.4	8.6	8.3
26	---	---	10.0	9.7	11.4	11.0	10.6	9.9	8.1	7.5	8.7	8.4
27	7.7	7.3	10.0	9.4	11.6	11.2	10.2	9.6	7.9	7.5	8.6	8.3
28	7.8	7.4	9.9	9.5	11.6	11.2	10.0	9.5	7.9	7.3	8.4	8.2
29	7.7	7.5	10.1	9.7	11.8	11.2	9.8	9.4	---	---	8.4	8.1
30	7.7	7.5	10.3	10.0	11.4	10.9	10.0	9.4	---	---	8.2	7.8
31	7.8	7.6	---	---	11.0	10.6	9.7	9.4	---	---	7.8	7.6
MONTH	7.8	5.6	10.3	7.1	11.8	8.6	12.2	9.4	11.3	7.2	8.7	6.9

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.9	7.2	7.2	6.8	5.8	5.4	5.8	5.4	5.7	4.8	6.5	5.7
2	7.4	7.1	7.2	6.8	5.8	5.4	5.8	5.3	6.1	5.2	6.1	5.6
3	7.2	7.0	7.2	6.8	5.9	5.5	5.9	5.4	6.8	5.4	6.1	5.5
4	6.9	6.5	7.2	6.8	5.8	5.4	5.7	5.2	6.7	5.8	6.3	5.6
5	6.5	5.9	7.3	6.9	5.8	5.3	5.7	5.2	6.7	5.7	5.7	5.4
6	5.9	5.6	7.2	6.9	5.9	5.4	5.7	5.2	6.4	5.5	5.6	5.3
7	5.9	5.7	7.2	6.9	5.7	5.4	5.7	5.1	6.4	5.6	5.8	5.3
8	6.1	5.8	7.0	6.8	5.7	5.3	5.7	4.8	6.0	5.5	5.7	5.3
9	6.2	5.8	7.2	6.9	5.8	5.2	5.3	4.7	5.7	5.4	6.1	5.7
10	6.3	6.0	7.4	6.8	5.8	5.4	5.3	4.7	5.7	5.4	6.3	5.7
11	6.2	5.9	7.2	6.9	5.8	5.4	5.6	4.9	5.8	5.4	6.4	5.8
12	6.2	5.9	7.0	6.7	5.8	5.4	5.6	4.8	5.9	5.4	7.1	6.2
13	6.1	5.9	6.8	6.6	5.7	5.3	5.8	4.8	6.1	5.5	7.3	6.3
14	6.1	5.9	6.8	6.5	5.9	5.3	6.5	5.4	6.0	5.5	7.5	6.3
15	6.0	5.8	6.7	6.5	5.8	5.4	6.9	5.7	5.9	5.5	7.5	6.4
16	6.2	6.0	6.7	6.4	5.7	5.2	6.9	6.3	6.1	5.5	7.2	6.4
17	6.3	6.0	6.7	6.3	5.8	5.2	7.1	6.3	6.2	5.5	7.6	6.4
18	6.3	5.9	6.9	6.4	5.9	5.3	6.7	5.7	6.0	5.4	7.8	6.6
19	6.1	5.8	6.8	6.4	6.0	5.3	6.8	5.1	5.9	5.6	7.2	6.5
20	5.9	5.6	6.7	6.3	5.8	5.3	6.5	5.3	5.9	5.6	6.8	6.4
21	5.7	5.4	6.4	6.1	5.7	5.1	5.3	4.3	6.1	5.7	6.7	6.3
22	5.8	5.4	6.6	6.0	5.9	5.2	5.3	3.8	6.4	5.9	6.3	5.9
23	6.1	5.7	6.5	6.0	5.8	5.2	5.4	3.8	6.4	6.1	6.2	5.8
24	6.4	5.9	6.4	5.9	5.8	5.4	5.2	4.5	6.5	6.2	6.2	5.6
25	6.8	6.4	6.4	5.7	5.6	5.1	6.0	4.7	6.4	6.2	6.3	5.6
26	7.1	6.7	6.0	5.7	5.5	5.1	6.1	5.1	6.5	6.1	6.5	5.5
27	7.2	7.0	5.9	5.5	5.5	5.0	6.0	4.9	6.4	6.2	6.3	5.9
28	7.3	7.0	5.8	5.5	5.7	5.0	6.0	5.1	6.5	6.0	6.5	5.7
29	7.3	7.0	6.0	5.5	6.0	5.3	6.2	5.2	6.5	6.0	6.4	5.6
30	7.2	6.9	6.1	5.6	6.2	5.5	6.0	5.2	6.3	5.9	6.1	5.4
31	---	---	5.8	5.3	---	---	5.5	4.8	6.3	5.9	---	---
MONTH	7.9	5.4	7.4	5.3	6.2	5.0	7.1	3.8	6.8	4.8	7.8	5.3
YEAR	12.2	3.8										

RESERVOIRS IN ALTAMAHA RIVER BASIN

02210000 LLOYD SHOALS RESERVOIR.--Lat 33°19'13", long 83°50'20", Butts County, Hydrologic Unit 03070103, on Ocmulgee River, 1 mi (1.6 km) upstream from bridge on State Highway 16, and 7 mi (11.3 km) east of Jackson. DRAINAGE AREA, 1,400 mi^2 (3,626 km^2). PERIOD OF RECORD, October 1929 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 528.0 and 525.0 ft) (160.9 and 160.0 m) is equipped with flashboards 308.5 ft (94.0 m) wide by 2 ft (0.61 m) high and 420 ft (128.0 m) wide by 5 ft (1.52 m) high. Dam completed in 1910. Total capacity at elevation 530.0 ft (161.5 m), top of flashboards, is 107,000 acre-ft (132 hm^3), of which 78,000 acre-ft (96.2 hm^3) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	526.6	91400	-	-
Oct. 31................	526.0	89000	-2400	-39
Nov. 30................	525.6	87400	-1600	-27
Dec. 31................	525.0	85000	-2400	-39
CAL YR 1980	-	-	-8000	-11
Jan. 31................	525.3	86200	+1200	+20
Feb. 28................	528.3	98800	+12600	+227
Mar. 31................	528.1	98000	-800	-13
Apr. 30................	527.5	95200	-2800	-47
May 31................	526.7	91800	-3400	-55
June 30................	525.8	88200	-3600	-61
July 31................	525.4	86600	-1600	-26
Aug. 31................	526.1	89400	+2800	+46
Sept. 30................	524.8	84200	-5200	-87
WTR YR 1981	-	-	-7200	-10

† Elevation at 0700 on day following that shown in first column.

02220450 LAKE OCONEE.--Lat 33°21'00", long 83°09'28", Putnam County, Hydrologic Unit 03070101, on Oconee River, 1.5 mi (2.4 km) upstream from bridge on State Highway 16, and 13.3 mi (21.4 km) east of Eatonton. DRAINAGE AREA, 1,820 mi^2 (4,714 km^2). PERIOD OF RECORD, January 1979 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 435.6 ft) (132.77 m) is equipped with five radial gates 42 ft wide by 44 ft high (12.8 m by 13.4 m). Storage began in January 1979; water in reservoir first reached minimum pool elevation in July 1979. Capacity curve and monthend elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	432.2	310400	-	-
Oct. 31................	435.3	365400	+55000	+894
Nov. 30................	434.7	354600	-10800	-182
Dec. 31................	435.6	370800	+16200	+263
CAL YR 1980	-	-	+12600	+17
Jan. 31................	435.5	369000	-1800	-29
Feb. 28................	435.6	370800	+1800	+32
Mar. 31................	435.6	370800	0	0
Apr. 30................	435.3	365400	-5400	-91
May 31................	434.7	354600	-10800	-176
June 30................	434.1	343800	-10800	-182
July 31................	433.3	329400	-14400	-234
Aug. 31................	432.9	322300	-7100	-115
Sept. 30................	430.6	285000	-37300	-627
WTR YR 1981	-	-	-25400	-35

† Elevation at 0700 on day following that shown in first column.

RESERVOIRS IN ALTAMAHA RIVER BASIN--Continued

02222500 SINCLAIR RESERVOIR.--Lat 33°08'27", long 83°12'08", Baldwin County, Hydrologic Unit 03070101, on Oconee River, 1.5 mi (2.4 km) upstream from Georgia Railroad bridge, and 4 mi (6.4 km) north of Milledgeville. DRAINAGE AREA, 2,900 mi² (7,511 km²). PERIOD OF RECORD, October 1952 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 319 ft) (97.2 m) is equipped with 24 gates 30 ft wide by 21 ft high (9.14 m by 6.40 m). Storage began in 1952; water in reservoir first reached minimum pool elevation in 1953. Total capacity at elevation 340.0 ft (103.6 m), top of gates, is 334,000 acre-ft (412 hm³), of which 214,600 acre-ft (265 hm³) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	338.1	305500	-	-
Oct. 31................	335.8	273400	-32100	-522
Nov. 30................	338.1	305500	+32100	+539
Dec. 31................	337.2	292800	-12700	-207
CAL YR 1980	-	-	-26200	-36
Jan. 31................	339.1	320500	+27700	+450
Feb. 28................	338.9	317500	-3000	-54
Mar. 31................	338.7	314500	-3000	-49
Apr. 30................	338.3	308500	-6000	-101
May 31................	338.7	314500	+6000	+98
June 30................	339.2	322000	+7500	+126
July 31................	337.2	292800	-29200	-475
Aug. 31................	336.7	285800	-7000	-114
Sept. 30................	337.2	292800	+7000	+118
WTR YR 1981	-	-	-12700	-18

† Elevation at 0700 on day following that shown in first column.

02226475 SATILLA RIVER AT WALTERTOWN, GA.

LOCATION.—Lat 31°18'17", long 82°23'33", Ware County, Hydrologic Unit 03070201, at county highway bridge at Waltertown, and 6 mi (10 km) north of Waycross.
PERIOD OF RECORD.—August 1973 to current year.
REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 22...	1100	5.0	5.8	6.2	19.5	20.5	6.8
NOV 18...	1130	13	5.1	--	16.0	17.0	7.9
DEC 16...	0945	16	--	5.9	6.5	9.5	8.4
JAN 20...	1220	17	6.2	6.4	17.0	7.0	11.4
FEB 17...	1120	339	4.5	4.8	23.0	12.0	9.8
MAR 17...	1130	114	5.2	--	15.0	14.0	8.5
APR 21...	1155	60	5.2	5.6	17.5	22.5	4.7
MAY 19...	1135	14	5.4	5.8	30.0	25.0	5.8
JUN 16...	1040	19	--	5.5	34.0	29.0	4.4
JUL 21...	1050	4.3	5.8	6.0	30.0	27.0	5.0
AUG 18...	1145	71	5.3	5.3	26.5	26.0	5.5
SEP 22...	1030	8.2	6.0	5.8	25.0	20.0	6.4

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 22...	30	50	7	2.6	430	5.0	<.02	<.020	.050	7.5
NOV 18...	68	60	4	.9	<30	4.0	.03	.030	.040	10
DEC 16...	69	80	3	1.1	<50	3.0	.02	<.020	.040	9.0
JAN 20...	102	40	5	.7	<30	6.0	<.02	<.020	.020	8.0
FEB 17...	94	60	6	1.4	30	1.0	.10	.020	.050	22
MAR 17...	48	240	5	2.1	40	3.0	.02	<.020	.030	32
APR 21...	62	120	5	.6	<30	5.0	.12	.070	.120	21
MAY 19...	44	90	5	.9	40	5.0	.02	<.020	.060	12
JUN 16...	46	130	5	1.4	<30	3.0	.04	<.020	.070	18
JUL 21...	38	70	6	3.1	40	6.0	.02	<.020	.060	9.0
AUG 18...	110	180	5	1.4	<90	2.0	<.02	.040	.100	23
SEP 22...	57	150	4	1.2	40	5.0	.09	.040	.100	17

02226500 SATILLA RIVER NEAR WAYCROSS, GA.

LOCATION.--Lat 31°14'17", long 82°19'29", Ware-Pierce County line, Hydrologic Unit 03070201, on downstream side of pier near center span of bridge on State Highway 38, 3 mi (4.8 km) northeast of Waycross, and 16 mi (25.7 km) upstream from Alabaha River.

DRAINAGE AREA.--1,200 mi^2 (3,110 km^2), approximately.

PERIOD OF RECORD.--March 1937 to current year.

REVISED RECORDS.--WSP 952: 1939. WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 66.43 ft (20.248 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1952, nonrecording gage at site 300 ft (91 m) downstream at same datum.

REMARKS.--Records fair. Records for Oct. 1 to Sept.11 based on twice-daily wire-weight gage readings. Records of chemical analyses for the water years 1968-73 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--44 years, 1,014 ft^3/s (28.7 m^3/s), 11.48 in/yr (292 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft^3/s (1,100 m^3/s) Apr. 4, 1948, gage height, 22.4 ft (6.83 m), from floodmark; minimum, 6.0 ft^3/s (0.170 m^3/s) Nov. 3, 4, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, that of Apr. 4, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,190 ft^3/s (33.7 m^3/s) Apr. 4, gage height, 10.5 ft (3.20 m), no peaks above base of 2,700 ft^3/s (76.5 m^3/s); minimum discharge, 8.6 ft^3/s (0.24 m^3/s) July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	120	50	47	58	121	624	52	27	16	45	200
2	22	111	61	43	64	98	808	43	25	17	108	160
3	22	96	39	42	66	109	925	32	19	17	276	120
4	22	92	37	39	77	104	1060	28	22	17	346	95
5	20	89	39	39	64	316	1100	37	30	17	347	75
6	19	67	56	39	68	278	1010	44	30	16	302	66
7	18	54	42	56	85	414	912	156	24	15	257	60
8	17	53	34	61	82	464	802	86	25	17	185	54
9	18	47	34	68	80	464	702	53	20	26	133	48
10	15	29	34	65	97	413	562	49	25	20	126	44
11	13	33	37	57	353	359	492	48	25	19	110	40
12	13	29	34	51	360	334	558	50	69	16	106	38
13	14	20	34	51	484	314	336	50	64	17	146	36
14	15	30	34	52	598	250	276	42	67	16	204	33
15	13	30	34	53	533	220	238	39	61	14	269	30
16	13	34	34	46	504	197	203	33	49	13	239	31
17	13	34	36	52	424	156	172	27	44	13	188	27
18	16	28	38	48	402	131	156	32	37	12	125	24
19	13	27	33	45	365	129	138	28	44	13	83	22
20	13	25	35	43	342	150	107	27	34	14	74	22
21	13	29	36	43	354	185	111	24	28	16	69	20
22	14	35	37	40	360	209	105	27	29	13	58	19
23	18	30	36	43	308	389	91	27	24	9.2	50	18
24	119	44	32	44	220	520	94	29	28	11	49	16
25	62	43	31	46	191	630	85	26	21	18	40	15
26	44	44	35	44	174	614	86	25	17	18	36	14
27	39	59	42	48	170	540	71	32	29	16	36	13
28	49	48	48	53	158	500	63	30	27	12	36	13
29	109	48	58	46	---	460	60	26	24	9.8	55	12
30	212	46	49	44	---	450	64	27	22	11	120	11
31	232	---	49	50	---	518	---	27	---	15	240	---
TOTAL	1244	1474	1228	1498	7041	10036	12011	1256	990	474.0	4458	1376
MEAN	40.1	49.1	39.6	48.3	251	324	400	40.5	33.0	15.3	144	45.9
MAX	232	120	61	68	598	630	1100	156	69	26	347	200
MIN	13	20	31	39	58	98	60	24	17	9.2	36	11
CFSM	.03	.04	.03	.04	.21	.27	.33	.03	.03	.01	.12	.04
IN.	.04	.05	.04	.05	.22	.31	.37	.04	.03	.01	.14	.04

CAL YR 1980 TOTAL 395297.0 MEAN 1080 MAX 15700 MIN 13 CFSM .90 IN 12.25
WTR YR 1981 TOTAL 43086.0 MEAN 118 MAX 1100 MIN 9.2 CFSM .10 IN 1.34

02226582 SATILLA RIVER NEAR HOBOKEN, GA.

LOCATION.--Lat 31°13'00", long 82°09'45", Brantley-Pierce County line, Hydrologic Unit 03070201, at bridge on State Highway 121, 3 mi (4.8 km) northeast of Hoboken.

DRAINAGE AREA.--1,350 mi^2 (3,500 km^2), approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 22...	1145	26	6.7	7.2	21.5	21.0	7.4
NOV 18...	1030	39	--	7.0	20.0	17.0	6.7
DEC 16...	1045	40	--	6.9	7.0	10.0	7.4
JAN 20...	1300	57	6.5	6.8	16.5	7.5	10.2
FEB 17...	1245	470	--	5.5	23.0	12.0	8.6
MAR 17...	1245	170	5.8	6.3	19.0	15.0	7.9
APR 21...	1300	106	--	6.2	17.0	22.5	4.8
MAY 19...	1230	53	6.4	6.7	31.0	26.0	5.6
JUN 16...	1210	51	--	6.0	34.0	28.0	4.7
JUL 21...	1150	18	7.2	7.4	33.0	27.0	5.3
AUG 18...	1230	150	5.9	6.0	26.0	26.5	5.2
SEP 22...	1110	30	6.7	6.6	27.5	20.5	5.8

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 22...	183	40	5	--	1.3	<35	26	.29	.110	--	.580	9.5
NOV 18...	147	90	5	--	1.8	70	20	1.1	.800	--	.460	10
DEC 16...	145	75	3	--	1.1	390	18	1.0	.500	--	.420	9.0
JAN 20...	142	50	5	--	.6	230	19	.45	.430	--	.380	10
FEB 17...	83	120	8	--	2.2	750	2.0	.14	.120	--	.140	23
MAR 17...	87	100	8	--	2.4	190	8.0	.14	.230	--	.200	17
APR 21...	81	120	6	--	1.4	930	9.0	.31	.420	--	.300	20
MAY 19...	100	80	5	--	1.5	40	13	.66	.060	--	.500	11
JUN 16...	86	180	2	--	1.0	40	7.0	.61	.070	--	.500	25
JUL 21...	201	50	4	24	.9	<30	36	.88	.050	.50	.800	10
AUG 18...	94	160	6	57	1.1	90	5.0	.18	.150	1.29	.250	23
SEP 22...	133	120	3	35	.7	<30	16	1.4	.070	.40	1.02	16

02227000 HURRICANE CREEK NEAR ALMA, GA.

LOCATION.—Lat 31°34'00", long 82°27'50", Bacon County, Hydrologic Unit 03070201, at bridge on U.S. Highway 1, 1.5 mi (2.4 km) north of Alma.

DRAINAGE AREA.—150 mi2 (388 km2).

PERIOD OF RECORD.—Several miscellaneous samples collected between October 1969 and June 1974. July 1979 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water discharge records for the water years 1951-71 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 22...	0945	.00	5.3	5.3	17.5	18.5	3.4
NOV 18...	1300	1.0	4.5	4.8	16.0	14.5	4.8
DEC 16...	0915	1.1	--	5.1	7.5	7.5	7.4
JAN 20...	1005	3.9	5.1	5.0	11.5	5.0	7.5
FEB 17...	1000	42	4.5	4.5	19.0	12.5	6.6
MAR 17...	1040	17	4.7	4.7	16.0	11.0	8.5
APR 21...	1025	11	4.2	4.6	16.0	20.0	4.9
MAY 19...	1050	.00	4.9	4.9	29.0	23.0	2.8
JUN 16...	0945	3.2	--	4.6	33.0	24.0	4.0
JUL 21...	1000	.00	5.1	5.2	29.0	25.0	.7
AUG 18...	1050	.00	5.3	5.3	25.0	23.5	1.2
SEP 22...	0940	.00	5.4	4.9	24.5	17.5	1.8

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 22...	42	160	5	2.0	<30	3.0	<.02	.030	.030	18
NOV 18...	56	150	1	2.6	90	1.0	<.02	<.020	<.020	22
DEC 16...	59	100	1	.9	90	1.0	<.02	.020	<.020	15
JAN 20...	50	60	4	2.8	40	1.0	<.02	<.020	<.020	12
FEB 17...	72	60	5	.8	<60	--	<.02	<.020	<.020	19
MAR 17...	74	80	5	1.6	40	1.0	.13	<.020	<.020	17
APR 21...	55	200	3	.8	<30	1.0	.02	.040	.040	32
MAY 19...	54	275	4	2.2	9300	2.0	<.02	.140	.080	38
JUN 16...	65	165	1	.9	90	1.0	.03	.020	.020	25
JUL 21...	49	140	6	6.0	12600	6.0	.02	.230	.110	22
AUG 18...	43	160	6	5.1	2300	2.0	<.02	.100	.090	18
SEP 22...	50	165	3	2.6	430	2.0	.09	.040	.060	22

02227500 LITTLE SATILLA RIVER NEAR OFFERMAN, GA.

LOCATION.—Lat 31°27'04", long 82°03'17", Pierce-Wayne County line, Hydrologic Unit 03070202, at right bank pier of steel truss span of Seaboard Coast Line Railroad bridge, 1,500 ft (457 m) downstream from bridge on State Highway 38, 4 mi (6.4 km) northeast of Offerman, and 16 mi (26 km) upstream from mouth.

DRAINAGE AREA.—646 mi^2 (1,673 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—January 1951 to current year.

GAGE.—Water-stage recorder. Datum of gage is 58.00 ft (17.678 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1952, water-stage recorder at site 1,500 ft (457 m) upstream and Nov. 8, 1952, to Sept. 30, 1975, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

REMARKS.—Records good except those below 50 ft^3/s (1.42 m^3/s), which are fair. Records of chemical analyses for the water year 1970 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.—30 years, 512 ft^3/s (14.5 m^3/s), 10.76 in/yr (273 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 17,200 ft^3/s (487 m^3/s) Sept. 29, 1953, gage height, 14.5 ft (4.42 m), present datum; no flow Oct. 10 to Nov. 14, 1954.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 1,500 ft^3/s (42.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 7	0800	*2340	66.3	9.66	2.944

Minimum discharge, 0.07 ft^3/s (0.002 m^3/s) Oct. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.33	4.4	6.9	9.5	14	83	395	5.7	.84	.73	2.3	3.1
2	.28	3.9	6.8	10	16	75	638	4.4	1.0	6.2	13	2.5
3	.24	3.0	6.4	8.8	20	66	737	3.7	1.4	19	36	2.1
4	.20	2.5	6.1	7.7	21	61	919	3.3	.96	17	32	1.8
5	.17	2.9	5.5	7.0	19	133	1430	3.0	.82	12	19	1.7
6	.17	2.0	5.2	6.5	18	200	1970	2.7	.80	11	10	1.7
7	.18	1.7	4.8	8.2	18	230	2310	7.9	.85	9.0	5.7	2.1
8	.17	1.6	4.6	12	18	230	2040	17	.89	6.3	3.3	3.5
9	.17	1.5	4.3	14	17	211	1660	18	.86	7.9	3.8	2.9
10	.17	1.4	4.4	15	16	197	1300	13	.80	6.3	16	2.6
11	.15	1.4	7.9	14	105	195	978	8.7	.89	3.5	12	1.8
12	.12	1.3	11	13	224	176	743	5.4	1.5	1.9	9.4	1.4
13	.09	1.2	8.8	12	256	149	546	3.6	2.1	1.2	15	1.1
14	.10	1.2	7.3	11	216	125	367	2.7	1.3	1.0	73	1.0
15	.10	1.2	6.4	11	163	104	255	2.1	.97	.81	53	.88
16	.10	1.2	6.0	10	123	92	189	1.8	.80	.74	39	.96
17	.10	1.3	6.1	9.6	101	81	144	1.6	.73	.87	28	.82
18	.10	1.3	5.9	9.1	95	78	112	1.5	.85	.62	19	.73
19	.30	1.2	5.8	9.0	123	119	89	1.4	1.2	.50	14	.62
20	.50	1.2	5.8	8.9	155	108	70	1.3	1.4	.44	12	.61
21	.37	1.2	5.5	11	173	99	54	1.2	1.2	.44	11	.55
22	.37	1.2	5.3	12	176	152	47	1.1	.92	.44	9.5	.55
23	.81	1.3	5.9	13	161	289	41	1.0	.81	.39	9.3	.48
24	.70	2.1	7.2	13	146	350	35	.94	.75	.37	23	.46
25	.49	4.1	8.0	12	137	387	38	.88	.75	.34	19	.42
26	.42	5.8	7.7	11	125	379	24	.99	.65	.30	12	.40
27	.37	7.0	7.3	11	109	335	19	1.8	.97	.26	8.5	.41
28	.48	7.4	7.5	11	94	301	14	1.5	1.4	.24	6.8	.39
29	.51	7.3	9.1	13	---	265	10	1.0	1.8	.25	5.8	.38
30	1.4	7.0	10	15	---	261	7.4	.89	1.0	1.5	4.6	.36
31	3.0	---	10	14	---	336	---	.83	---	1.5	3.8	---
TOTAL	12.66	81.8	209.5	342.3	2859	5867	17173.4	120.93	31.21	113.04	528.8	38.32
MEAN	.41	2.73	6.76	11.0	102	189	572	3.90	1.04	3.65	17.1	1.28
MAX	3.0	7.4	11	15	256	387	2310	18	2.1	19	73	3.5
MIN	.09	1.2	4.3	6.5	14	61	7.4	.83	.65	.24	2.3	.36
CFSM	.001	.004	.01	.02	.16	.29	.89	.006	.002	.006	.03	.002
IN.	.00	.00	.01	.02	.16	.34	.99	.01	.00	.01	.03	.00

CAL YR 1980 TOTAL 201799.76 MEAN 551 MAX 13100 MIN .09 CFSM .85 IN 11.62
WTR YR 1981 TOTAL 27377.96 MEAN 75.0 MAX 2310 MIN .09 CFSM .12 IN 1.58

02227500 LITTLE SATILLA RIVER NEAR OFFERMAN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1957 to May 1958, October 1969 to August 1970, April 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
21...	1420	.37	22.0	16	.02
DEC					
04...	0925	6.1	9.0	9	.15
MAR					
05...	1020	133	16.0	19	6.8
APR					
16...	1645	183	20.0	4	2.0
JUL					
01...	0845	.72	--	23	.04
20...	1635	.47	32.0	11	.01
AUG					
20...	1110	12	23.0	11	.36
SEP					
23...	0935	.47	22.0	7	.01

02228000 SATILLA RIVER AT ATKINSON, GA.
(National stream-quality accounting network station)

LOCATION.—Lat 31°13'16", long 81°52'03", Brantley County, Hydrologic Unit 03070201, on left bank piling 25 ft (7.6 m) upstream from bridge on U.S. Highway 84, 400 ft (122 m) downstream from Seaboard Coast Line Railroad bridge, and 1 mi (1.6 km) west of Atkinson.

DRAINAGE AREA.—2,790 mi^2 (7,230 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—March 1930 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.—WSP 1504: 1932. WSP 1624: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 14.79 ft (4.508 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 6, 1933, and Nov. 21, 1961, to Sept. 30, 1964, nonrecording gage at same site and datum.

REMARKS.—Records good.

AVERAGE DISCHARGE.—51 years, 2,229 ft^3/s (63.1 m^3/s), 10.85 in/yr (276 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 68,100 ft^3/s (1,930 m^3/s) Apr. 6, 1948, gage height, 23.9 ft (7.28 m); minimum daily, 21 ft^3/s (0.59 m^3/s) Nov. 2-5, 7-13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1862, 27.2 ft (8.29 m) in September 1929, from information by Georgia Department of Transportation; discharge, 110,000 ft^3/s (3,120 m^3/s).

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 3,180 ft^3/s (90.1 m^3/s) Apr. 14, gage height, 11.02 ft (3.359 m), no peaks above base of 5,800 ft^3/s (164 m^3/s); minimum discharge, 35 ft^3/s (0.99 m^3/s) July 28-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	164	237	117	115	570	1440	210	82	76	73	378
2	60	200	220	121	122	518	1510	188	95	74	86	403
3	60	223	203	123	124	469	1610	171	196	70	118	375
4	59	223	189	123	123	433	1700	158	145	66	161	338
5	59	208	177	120	129	489	1800	148	113	64	206	296
6	57	187	166	118	143	570	1910	139	103	67	281	257
7	55	168	155	121	154	654	2020	151	98	68	323	220
8	54	153	147	121	158	788	2160	151	108	66	337	191
9	52	141	140	121	158	891	2330	148	127	66	344	176
10	50	129	135	125	160	948	2550	158	139	63	348	164
11	49	119	130	137	218	974	2780	171	128	60	337	151
12	48	110	125	143	330	972	3020	160	127	58	308	142
13	46	105	120	144	417	947	3160	143	128	61	283	132
14	45	101	116	144	579	895	3140	132	141	58	282	123
15	44	97	114	142	749	820	2900	124	152	54	297	113
16	44	92	115	136	864	744	2390	116	152	53	368	109
17	43	88	113	132	923	661	1810	109	142	50	443	112
18	42	86	109	128	958	594	1370	103	132	53	452	109
19	41	82	107	127	1000	555	1040	98	122	48	424	99
20	41	80	106	125	1020	528	812	101	113	43	362	93
21	39	79	105	124	1000	516	657	110	105	44	300	87
22	38	77	104	119	968	539	551	95	107	41	252	84
23	52	76	105	116	929	665	478	88	126	41	218	79
24	67	105	105	115	882	804	426	83	145	43	195	73
25	66	137	104	116	824	955	383	79	150	43	173	70
26	74	138	102	117	760	1100	344	76	138	41	159	67
27	108	165	104	116	692	1220	312	76	118	38	155	64
28	125	223	108	116	626	1290	283	75	101	36	161	61
29	122	246	112	115	---	1320	255	74	87	36	221	59
30	129	246	113	114	---	1350	231	80	80	37	218	57
31	142	---	114	112	---	1400	---	86	---	62	293	---
TOTAL	1973	4248	4100	3848	15125	25179	45372	3801	3700	1680	8178	4682
MEAN	63.6	142	132	124	540	812	1512	123	123	54.2	264	156
MAX	142	246	237	144	1020	1400	3160	210	196	76	452	403
MIN	38	76	102	112	115	433	231	74	80	36	73	57
CFSM	.02	.05	.05	.04	.19	.29	.54	.04	.04	.02	.10	.06
IN.	.03	.06	.05	.05	.20	.34	.60	.05	.05	.02	.11	.06

CAL YR 1980 TOTAL 867001 MEAN 2369 MAX 31000 MIN 38 CFSM .85 IN 11.56
WTR YR 1981 TOTAL 121886 MEAN 334 MAX 3160 MIN 36 CFSM .12 IN 1.63

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1981 (discontinued).

WATER TEMPERATURES: November 1974 to September 1981 (discontinued).

INSTRUMENTATION.--Water-temperature recorder October 1975 to September 1981. Specific-conductance recorder November 1974 to September 1981.

REMARKS.--No daily specific-conductance record Nov. 11-30, Dec. 21 to Mar. 12, Apr. 18-20, and May 21 to July 3.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 159 micromhos Nov. 7, 1978; minimum recorded, 30 micromhos Mar. 16, 1977, Sept. 28, 1979, Mar. 20, 21, 1980.

WATER TEMPERATURES: Maximum, 33.5°C July 11-12, 1977, Aug. 4, 1980; minimum recorded, 4.0°C Jan. 13, 1981.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 115 micromhos Oct. 4; minimum recorded, 58 micromhos Aug. 20.

WATER TEMPERATURES: Maximum, 33.0°C June 15-18, 25; minimum, 4.0°C Jan. 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT									
08...	1600	54	94	88	6.6	6.8	27.0	22.0	9.6
NOV									
05...	1630	206	77	74	5.8	5.8	--	20.0	7.8
DEC									
17...	1445	113	90	87	--	6.7	--	12.0	10.2
JAN									
28...	1530	118	102	100	6.7	7.0	17.0	12.5	11.9
FEB									
19...	1600	1010	80	78	4.8	5.2	--	15.5	8.8
MAR									
18...	1550	585	86	85	5.4	5.7	--	16.0	8.3
APR									
08...	1645	2180	72	72	4.6	4.7	23.0	19.5	6.4
MAY									
06...	1500	139	76	72	6.3	6.3	--	24.0	7.2
JUN									
04...	1400	142	72	69	6.3	6.4	--	30.0	7.1
JUL									
08...	1600	65	86	82	6.6	6.6	30.0	31.5	7.1
AUG									
12...	1400	306	78	79	5.4	5.8	--	31.0	5.6
SEP									
09...	1400	177	71	70	--	6.4	--	29.0	5.4

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT												
08...	80	6	1.9	2.1	90	23	K18	20	4.0	3.9	2.4	9.0
NOV												
05...	--	--	5.1	--	--	69	28	16	7.0	3.4	1.8	6.6
DEC												
17...	--	--	1.1	--	--	67	K14	16	.00	3.3	2.0	9.7
JAN												
28...	50	7	1.5	2.8	<30	46	78	19	12	3.7	2.3	10
FEB												
19...	--	--	1.5	--	--	64	56	17	16	3.0	2.2	6.4
MAR												
18...	--	--	1.6	--	--	25	K12	17	15	3.5	2.0	8.1
APR												
08...	150	4	4.1	2.1	430	71	110	14	13	2.3	1.9	6.8
MAY												
06...	--	--	2.0	--	--	K12	180	12	5.0	2.3	1.6	7.2
JUN												
04...	--	--	3.9	--	--	130	15	12	8.0	2.0	1.7	7.1
JUL												
08...	60	5	4.1	1.2	40	31	K15	12	8.0	2.3	1.5	7.1
AUG												
12...	--	--	5.5	--	--	K13	K4	19	17	3.7	2.3	5.2
SEP												
09...	--	--	3.1	--	--	34	--	12	4.0	2.4	1.5	6.6

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT 08...	2.0	16	11	10	.2	5.3	67	9.8	.28	<.020	.52	.54
NOV 05...	1.7	9.0	11	9.8	.0	8.7	76	42.3	.40	.120	.34	.46
DEC 17...	1.4	18	10	12	.1	11	85	25.9	.48	.060	.36	.42
JAN 28...	1.6	7.0	12	14	<.1	7.7	81	25.8	.31	.010	.37	.38
FEB 19...	1.6	1.0	15	9.8	<.1	8.9	88	240	.10	.120	.63	.75
MAR 18...	2.0	2.0	13	11	<.1	9.9	88	139	.15	.070	.52	.59
APR 08...	1.9	1.0	11	9.9	<.1	9.2	99	583	.04	.090	.45	.54
MAY 06...	1.6	7.0	7.8	10	<.1	9.5	66	24.8	.23	.010	.60	.61
JUN 04...	1.3	4.0	9.2	9.6	<.1	4.6	62	23.8	.03	.040	.40	.44
JUL 08...	1.5	4.0	9.2	11	.1	5.4	77	13.5	.07	.020	.53	.55
AUG 12...	2.1	2.0	12	9.9	<.1	9.9	107	88.4	.17	.070	1.0	1.10
SEP 09...	1.5	8.0	9.3	12	<.1	8.8	98	46.8	.19	.130	.60	.73

DATE	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 08...	.08	.46	.82	.230	.160	7.5	6.1	--	--	24	3.5	98
NOV 05...	.00	.51	.86	.210	.120	15	--	--	2800	--	--	--
DEC 17...	.09	.33	.90	.130	.090	12	--	--	--	5	1.5	100
JAN 28...	.00	.40	.69	.170	.120	11	8.7	1.1	--	7	2.2	96
FEB 19...	.10	.65	.85	.110	.090	31	--	--	--	16	44	87
MAR 18...	.11	.48	.74	.110	.070	19	--	--	--	13	21	90
APR 08...	.12	.42	.58	.070	.040	29	100	.4	--	18	106	73
MAY 06...	.19	.42	.84	.180	.060	12	--	--	10000	8	3.0	88
JUN 04...	.10	.34	.47	.150	.090	13	--	--	1800	7	2.7	100
JUL 08...	.17	.38	.62	.300	.200	16	11	.6	3400	7	1.2	85
AUG 12...	.00	.96	1.3	.170	.110	29	--	--	3900	16	13	86
SEP 09...	.08	.65	.92	.180	.110	27	--	--	190	--	--	--

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
OCT										
08...	1	1	--	30	0	0	10	<10	0	0
JAN										
28...	1	1	100	20	0	2	20	<10	1	1
APR										
08...	0	0	100	40	1	<1	<10	<10	0	0
JUL										
08...	3	1	100	20	1	3	10	10	2	4

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
OCT									
08...	2	2	810	440	2	2	10	7	<.1
JAN									
28...	1	0	420	240	0	0	10	9	.1
APR									
08...	3	0	790	630	9	0	80	80	.3
JUL									
08...	3	4	1300	590	6	5	20	20	.1

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT									
08...	<.1	4	0	0	0	0	0	10	20
JAN									
28...	<.1	2	1	0	0	0	0	40	50
APR									
08...	<.1	5	0	1	0	0	0	90	20
JUL									
08...	<.1	7	3	0	1	0	0	10	9

02228000 SATILLA RIVER AT ATKINSON, GA.—Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	106	100	87	78	80	73					---	---
2	107	100	91	78	77	71					---	---
3	107	100	81	77	78	64					---	---
4	115	105	77	73	78	67					---	---
5	111	108	80	72	82	71					---	---
6	110	102	80	71	84	68					---	---
7	109	103	81	72	81	70					---	---
8	104	93	83	73	81	65					---	---
9	94	90	80	71	83	69					---	---
10	93	89	85	76	82	71					---	---
11	95	91	---	---	78	65					---	---
12	99	94	---	---	82	72					---	---
13	104	98	---	---	82	71					93	90
14	106	102	---	---	94	66					93	89
15	105	101	---	---	97	81					91	88
16	102	97	---	---	90	81					89	88
17	97	88	---	---	90	80					88	85
18	92	87	---	---	90	89					88	86
19	92	88	---	---	88	81					87	84
20	93	89	---	---	89	76					85	81
21	95	92	---	---	---	---					83	79
22	94	92	---	---	---	---					84	80
23	94	86	---	---	---	---					80	75
24	90	86	---	---	---	---					76	71
25	92	85	---	---	---	---					75	72
26	86	81	---	---	---	---					74	69
27	94	84	---	---	---	---					75	72
28	112	95	---	---	---	---					76	74
29	113	94	---	---	---	---					75	72
30	100	93	---	---	---	---					74	73
31	99	86	---	---	---	---					74	72
MONTH	115	81	91	71	97	64					93	69

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	73	72	77	73			---	---	73	63	80	77
2	73	71	77	74			---	---	63	58	77	73
3	73	70	77	73			---	---	69	59	73	69
4	73	70	75	72			95	91	71	69	71	69
5	72	70	73	71			93	90	73	70	71	69
6	76	71	74	71			91	83	75	73	73	70
7	73	71	76	72			90	87	75	71	74	72
8	74	72	77	74			89	86	74	73	73	71
9	71	65	76	74			88	85	75	72	73	71
10	68	65	76	73			87	84	75	73	73	70
11	68	66	79	75			90	86	77	74	74	70
12	68	66	79	74			91	88	81	78	74	70
13	69	66	75	69			91	86	83	81	74	71
14	69	67	78	71			90	86	87	84	75	71
15	70	68	83	77			90	86	89	86	77	74
16	70	68	85	80			87	81	92	87	77	76
17	70	68	81	75			81	75	93	81	79	76
18	---	---	79	73			81	78	81	67	81	78
19	---	---	79	71			79	72	66	60	82	78
20	---	---	81	75			81	76	59	58	82	78
21	71	70	---	---			84	81	61	59	83	79
22	71	69	---	---			84	80	64	61	82	79
23	70	68	---	---			82	79	68	64	83	80
24	71	68	---	---			82	78	70	68	87	83
25	71	69	---	---			84	82	72	70	89	86
26	71	69	---	---			86	82	74	72	91	88
27	76	69	---	---			84	79	76	74	92	89
28	76	72	---	---			85	82	76	75	93	89
29	75	73	---	---			86	81	77	76	95	92
30	76	73	---	---			80	69	78	76	97	94
31	---	---	---	---			73	71	79	77	---	---
MONTH	76	65	85	69			95	69	93	58	97	69
YEAR	115	58										

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.0	25.0	19.0	17.0	12.5	10.5	10.0	9.0	12.5	10.0	17.0	15.0
2	25.0	24.5	19.0	17.0	14.0	12.0	10.0	9.0	13.0	12.0	18.0	16.5
3	24.5	23.5	19.5	18.0	14.0	12.5	9.5	8.0	12.0	10.0	17.5	16.0
4	24.0	22.5	20.5	18.5	13.0	11.5	9.5	8.0	9.5	8.5	17.5	16.0
5	23.5	21.5	20.0	18.5	13.5	11.5	8.5	7.5	9.5	8.0	19.0	17.0
6	23.0	20.5	18.5	17.0	13.5	12.0	8.0	6.5	9.5	8.5	18.0	16.5
7	22.0	20.0	18.0	16.0	13.5	12.0	9.0	8.0	10.0	9.5	17.0	16.0
8	22.0	20.0	18.0	15.5	14.0	12.5	8.5	7.5	11.5	10.0	16.5	15.0
9	22.5	20.5	18.0	16.0	15.0	13.5	8.0	7.0	11.5	9.5	16.5	15.0
10	23.0	21.0	18.5	17.0	15.5	14.5	8.0	6.5	13.0	10.0	16.0	14.5
11	23.5	22.0	18.0	16.5	15.0	14.0	7.5	6.5	14.0	12.5	16.0	14.5
12	23.0	22.0	16.5	15.5	13.5	12.5	6.5	5.5	12.0	10.0	15.5	14.0
13	22.0	20.5	16.0	14.0	13.0	12.0	5.5	4.0	10.0	9.0	15.0	13.5
14	21.5	20.0	16.5	15.0	13.0	11.5	6.0	4.5	10.5	9.5	16.0	14.0
15	22.0	20.0	18.5	16.0	12.5	11.0	8.0	6.0	11.5	10.0	16.0	14.0
16	22.5	21.0	19.0	18.0	12.0	11.0	8.5	7.0	12.0	10.5	16.5	15.0
17	23.5	21.5	18.5	17.0	12.0	11.0	8.0	7.0	13.0	12.0	15.5	14.0
18	24.5	22.5	18.0	17.0	11.5	10.5	7.0	6.0	14.0	13.0	16.0	14.5
19	24.5	23.5	16.5	15.0	12.0	10.0	7.5	6.0	15.0	13.5	16.5	15.0
20	25.0	24.0	15.0	14.0	11.5	10.5	8.0	7.0	16.0	14.5	15.5	14.0
21	24.0	23.0	14.0	13.0	11.0	8.5	9.0	8.0	16.0	14.5	16.0	13.5
22	23.0	22.5	13.5	12.0	8.5	8.0	9.0	8.5	16.0	14.5	15.5	15.0
23	22.5	21.0	15.5	13.0	8.5	8.0	9.5	8.5	16.0	15.0	15.0	13.5
24	20.5	19.0	16.0	15.5	9.5	7.5	10.0	8.5	15.5	14.5	14.0	12.5
25	19.5	18.5	16.5	15.5	9.5	8.5	10.0	8.5	15.5	14.0	15.0	13.0
26	19.0	17.0	15.5	14.0	8.0	7.0	10.5	9.0	16.0	14.0	15.5	13.5
27	18.5	16.5	15.0	14.0	7.0	6.5	10.5	9.5	16.0	14.5	16.0	14.0
28	18.0	18.0	15.0	13.0	6.5	6.0	12.0	10.5	16.0	14.5	17.0	15.0
29	19.5	18.0	13.0	12.0	8.0	6.5	12.0	10.0	---	---	17.5	16.5
30	19.5	19.0	12.5	11.0	9.0	7.5	12.0	10.0	---	---	17.5	17.0
31	19.0	18.0	---	---	10.0	9.0	11.5	10.5	---	---	19.0	17.0
MONTH	26.0	16.5	20.5	11.0	15.5	6.0	12.0	4.0	16.0	8.0	19.0	12.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	19.5	19.0	27.5	25.0	30.5	26.5	27.5	25.5	27.5	25.5	27.0	24.5
2	20.5	18.5	26.5	24.0	30.0	26.5	27.0	25.0	29.0	25.5	26.5	25.0
3	20.0	18.5	25.5	23.0	29.0	26.0	28.0	25.5	30.0	27.0	27.0	24.5
4	20.5	19.5	25.5	22.5	30.5	27.5	28.0	25.5	30.5	27.5	27.5	25.0
5	21.0	20.0	25.0	22.5	31.5	28.5	29.0	26.5	30.5	27.5	26.5	25.5
6	21.0	19.5	24.0	23.0	31.0	28.5	30.5	27.0	30.5	28.0	26.0	24.5
7	20.0	19.0	23.0	21.5	30.5	28.5	32.0	28.0	30.0	27.5	26.5	24.5
8	19.5	18.5	21.5	20.0	28.5	27.5	30.5	28.5	29.5	27.5	27.5	25.0
9	19.5	18.0	22.5	20.0	29.5	27.0	30.0	27.5	29.5	27.5	28.0	25.5
10	20.0	18.5	24.5	22.0	30.0	28.0	31.0	27.5	29.0	27.0	27.5	25.5
11	20.5	19.5	26.0	23.0	30.5	28.0	31.5	28.0	29.5	27.5	27.0	25.0
12	21.0	19.5	25.5	22.5	30.5	28.5	30.5	29.0	29.5	27.5	26.5	24.5
13	22.0	20.5	26.0	23.0	31.5	28.0	31.5	28.0	29.5	27.0	26.5	24.5
14	23.0	21.5	26.0	23.5	32.0	29.0	32.0	29.0	29.0	27.0	27.0	24.5
15	22.5	22.0	26.0	24.5	33.0	30.0	32.0	30.0	29.0	26.5	27.0	25.0
16	22.0	21.0	26.0	23.0	33.0	30.0	32.0	30.0	28.5	26.5	26.0	25.0
17	22.0	21.0	26.5	23.5	33.0	31.0	32.0	30.0	28.5	26.5	26.5	24.5
18	23.0	21.0	27.0	24.0	33.0	30.5	31.5	29.0	27.5	26.5	25.0	23.5
19	24.0	22.5	27.0	25.0	32.5	30.0	31.0	28.0	26.5	24.5	23.0	21.0
20	25.0	23.0	27.5	25.0	31.5	30.0	30.5	29.0	24.5	23.5	22.5	20.0
21	24.0	21.5	24.5	23.0	32.0	29.0	30.0	28.5	24.0	23.5	22.5	20.0
22	22.5	20.5	25.5	21.5	32.5	29.0	30.0	28.0	25.0	22.5	23.5	21.0
23	23.5	21.0	26.0	22.0	32.5	30.5	30.0	28.0	24.5	23.5	24.5	21.5
24	24.0	22.5	27.5	23.0	32.5	30.0	30.5	27.5	26.0	23.0	24.5	22.0
25	23.5	22.0	27.5	24.5	33.0	30.0	31.0	28.0	27.0	24.0	23.5	21.5
26	24.0	21.5	26.5	25.0	31.5	30.0	31.5	29.0	26.5	25.0	23.5	21.0
27	25.0	21.5	26.0	24.5	31.0	29.0	32.0	29.0	25.5	24.5	23.0	21.5
28	26.0	22.5	27.5	24.5	29.5	28.0	31.5	29.0	25.5	24.5	24.0	21.5
29	26.5	23.5	28.5	25.0	29.0	26.0	31.5	29.0	26.0	24.5	24.0	21.5
30	27.0	24.0	30.0	25.5	29.0	25.5	30.0	28.0	27.0	25.0	23.5	22.5
31	---	---	29.5	26.5	---	---	28.0	26.5	27.0	25.5	---	---
MONTH	27.0	18.0	30.0	20.0	33.0	25.5	32.0	25.0	30.5	22.5	28.0	20.0
YEAR	33.0	4.0										

02228500 NORTH PRONG ST. MARYS RIVER AT MONIAC, GA.

LOCATION.--Lat 30°31'03", long 82°13'50", in NW sec.8, T.1 N., R.21 E., Baker County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, near right bank at upstream side of bridge on State Highways 2 and 94, 0.2 mi (0.3 km) upstream from Georgia Southern & Florida Railway bridge, 0.4 mi (0.6 km) west of Moniac, 1.0 mi (1.6 km) downstream from Moccasin Creek, and 122 mi (196 km) upstream from mouth of St. Marys River.

DRAINAGE AREA.--160 mi^2 (410 km^2), approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

PERIOD OF RECORD.--January 1921 to December 1923 (published as St. Marys River at Moniac), January 1927 to June 1930, July 1932 to June 1934, October 1950 to current year.

REVISED RECORDS.--WSP 1234: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 89.40 ft (27.249 m) National Geodetic Vertical Datum of 1929. January 1921 to June 1934, nonrecording gage at site 800 ft (240 m) downstream at datum 3.22 ft (0.981 m) higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--36 years (1922-23, 1928-29, 1933, 1951-81), 161 ft^3/s (4.56 m^3/s), 13.66 in/yr (347 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft^3/s (329 m^3/s) Apr. 5, 1973, gage height, 22.98 ft (7.004 m); no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 828 ft^3/s (23.4 m^3/s) Mar. 6, gage height, 11.06 ft (3.371 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	92	154	34	27	133	215	6.4	.00	.01	30	51
2	3.5	86	138	33	30	117	206	4.8	.00	.00	38	43
3	3.1	77	124	32	35	104	172	3.4	.00	.00	24	36
4	2.5	71	110	31	33	92	144	2.5	.00	.00	12	32
5	1.9	66	98	30	31	387	128	1.9	.05	.00	6.4	28
6	1.5	60	89	28	30	792	115	1.5	.00	.00	3.3	26
7	1.3	54	81	32	32	704	102	3.3	.00	.00	1.8	29
8	1.1	49	73	42	33	596	91	8.3	.00	.00	.95	31
9	.90	45	68	41	32	522	82	6.9	.00	.00	.61	29
10	.79	43	63	40	31	449	75	5.1	.09	.00	.46	23
11	.67	40	60	38	108	379	69	3.7	.07	.00	2.6	19
12	.54	37	57	36	319	316	63	2.4	.08	.00	17	15
13	.44	34	52	35	324	257	57	1.7	.09	.00	39	12
14	.38	31	48	34	270	213	52	1.2	.13	.00	36	9.1
15	.29	30	45	35	239	177	47	.89	.08	.00	33	7.0
16	.33	31	43	35	216	151	42	.69	.00	.00	33	6.4
17	.43	34	46	33	192	131	38	.51	.00	.00	31	10
18	.43	36	46	32	200	117	35	.34	.00	.00	28	9.2
19	.42	35	44	30	593	120	32	.18	.02	.00	33	6.6
20	1.0	34	42	29	690	113	29	.04	.17	.00	32	4.8
21	1.6	32	41	30	567	98	27	.00	.18	.00	29	3.7
22	1.4	30	39	31	479	99	26	.00	.91	.00	41	3.0
23	7.0	28	39	30	410	153	24	.00	.71	.02	48	2.5
24	48	53	39	29	344	164	22	.00	.44	.06	46	2.0
25	54	168	38	28	277	144	21	.00	.27	.00	39	1.5
26	47	202	37	27	223	127	18	.00	.21	.00	33	1.2
27	42	201	35	26	183	111	15	.00	.11	.00	30	1.0
28	41	223	35	27	154	100	12	.00	.35	.00	45	.90
29	62	200	35	31	---	91	10	.00	.44	.00	63	.79
30	79	173	35	29	---	99	7.9	.00	.22	.63	67	.67
31	91	---	35	28	---	175	---	.00	---	2.9	62	---
TOTAL	499.12	2295	1889	996	6102	7231	1976.9	55.75	4.62	3.62	905.12	444.36
MEAN	16.1	76.5	60.9	32.1	218	233	65.9	1.80	.15	.12	29.2	14.8
MAX	91	223	154	42	690	792	215	8.3	.91	2.9	67	51
MIN	.29	28	35	26	27	91	7.9	.00	.00	.00	.46	.67
CFSM	.10	.48	.38	.20	1.36	1.46	.41	.01	.001	.001	.18	.09
IN.	.12	.53	.44	.23	1.42	1.68	.46	.01	.00	.00	.21	.10

CAL YR 1980 TOTAL 45876.42 MEAN 125 MAX 1050 MIN .29 CFSM .78 IN 10.67
WTR YR 1981 TOTAL 22402.49 MEAN 61.4 MAX 792 MIN .00 CFSM .38 IN 5.21

02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.

(National stream-quality accounting network station)

LOCATION.--Lat 30°21'31", long 82°04'54", in NW sec.2, T.2 S., R.22 E., Baker County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, on right bank 200 ft (60 m) downstream from site of former Stokes Bridge, 1 mi (2 km) downstream from confluence of North and South Prongs, 6 mi (10 km) northeast of Macclenny, and 100 mi (161 km) upstream from mouth.

DRAINAGE AREA.--700 mi² (1,810 km²), approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1926 to current year.

REVISED RECORDS.--WSP 1082: 1928(M), 1945(M). WSP 1142: 1928, 1945. WSP 1434: 1927. WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft (12.192 m) National Geodetic Vertical Datum of 1929 (levels by Mees and Mees). Prior to Feb. 21, 1939, nonrecording gage and Feb. 21, 1939, to Aug. 15, 1948, water-stage recorder, at site of former bridge 200 ft (60 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--55 years, 673 ft³/s (19.1 m³/s), 13.06 in/yr (332 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,100 ft³/s (796 m³/s) Sept. 25, 1947, maximum gage height, 23.25 ft (7.087 m) Sept. 13, 1964, from floodmark; minimum discharge observed, 12 ft³/s (0.34 m³/s) May 22, 1932; minimum gage height observed, 0.04 ft (0.012 m) June 4, 5, 1927.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Feb. 21	0300	2100	59.5	11.28	3.438
Apr. 3	1900	*2120	60.0	11.32	3.450

Minimum discharge, 29 ft³/s (0.82 m³/s) July 17, 18, gage height, 1.27 ft (0.387 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	221	371	117	85	809	1020	85	31	94	418	1030
2	61	211	345	114	85	717	1600	79	35	84	552	927
3	60	190	320	109	93	627	2070	72	34	75	504	815
4	57	172	299	106	104	544	2020	68	36	66	416	696
5	55	164	278	103	104	938	1800	64	35	60	352	583
6	53	158	257	100	98	1720	1590	61	35	54	236	479
7	52	150	242	101	95	1930	1400	60	36	50	147	402
8	50	140	226	114	94	1800	1200	60	36	47	106	361
9	49	131	214	132	96	1550	1020	58	37	44	86	297
10	48	123	202	131	95	1360	879	59	48	41	72	259
11	47	121	192	123	132	1180	760	56	49	39	64	218
12	45	115	186	118	491	1020	653	53	45	37	125	181
13	45	109	178	112	709	887	560	50	54	35	287	151
14	44	103	169	108	647	781	476	48	87	33	248	127
15	43	102	160	105	567	690	407	46	70	33	196	111
16	43	100	154	103	510	610	351	44	54	32	175	103
17	42	100	151	102	470	534	307	42	46	30	152	94
18	42	105	152	99	581	476	268	41	41	30	131	92
19	42	113	151	96	1230	434	235	39	40	34	112	95
20	41	112	146	93	1890	405	210	37	80	82	106	91
21	41	106	141	92	2080	371	187	35	177	76	101	84
22	42	102	135	92	1860	351	170	35	175	67	111	77
23	49	98	133	93	1650	426	159	34	138	67	234	72
24	92	126	134	93	1460	503	148	33	137	90	365	67
25	132	337	135	91	1300	474	136	32	126	154	466	63
26	133	455	132	89	1150	423	125	32	109	147	441	59
27	119	442	128	86	1020	375	115	39	103	115	358	56
28	112	432	124	85	909	337	107	37	95	93	318	53
29	127	435	120	86	---	309	98	35	100	75	368	50
30	155	405	120	88	---	306	91	33	100	67	569	48
31	196	---	120	89	---	612	---	32	---	232	907	---
TOTAL	2180	5678	5815	3170	19605	23499	20162	1499	2189	2183	8723	7741
MEAN	70.3	189	188	102	700	758	672	48.4	73.0	70.4	281	258
MAX	196	455	371	132	2080	1930	2070	85	177	232	907	1030
MIN	41	98	120	85	85	306	91	32	31	30	64	48
CFSM	.10	.27	.27	.15	1.00	1.08	.96	.07	.10	.10	.40	.37
IN.	.12	.30	.31	.17	1.04	1.25	1.07	.08	.12	.12	.46	.41

CAL YR 1980 TOTAL 213444 MEAN 583 MAX 6920 MIN 41 CFSM .83 IN 11.34
WTR YR 1981 TOTAL 102444 MEAN 281 MAX 2080 MIN 30 CFSM .40 IN 5.44

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1965 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1965 to October 1969, January 1974 to current year.
WATER TEMPERATURES: March 1965 to October 1969, January 1974 to September 1976.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 110 micromhos July 20; minimum daily, 40 micromhos Apr. 3, 4, 8.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 28...	1015	100	53	53	6.1	6.2	19.0	8.6
NOV 19...	1030	99	54	--	5.5	--	16.0	8.1
DEC 09...	1200	216	47	--	4.7	--	14.0	9.3
JAN 20...	1130	95	57	--	5.9	--	7.0	12.3
FEB 12...	1100	453	50	50	5.7	6.0	11.0	9.0
MAR 17...	1030	570	48	41		4.5	14.5	7.1
APR 21...	1000	190			5.2	5.5	24.0	7.4
MAY 21...	0935	33	76	89		7.6	26.0	5.8
JUN 10...	1300	42				6.9	30.0	7.0
JUL 09...	1050	45	--	66	--	5.9	--	--
AUG 04...	0930	421	55	47	5.8	5.7	27.0	5.8
SEP 08...	1130	391	50	46	4.8	5.2	25.0	6.2

DATE	TURBIDITY (NTU)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
OCT 28...	.50	--	--	17	3.6	1.9	4.1	.8	15	5.9
FEB 12...	1.8	800	650	15	3.3	1.7	4.6	.6	7.0	5.7
MAR 17...	.80	--	--	9	2.0	1.0	3.7	.2	1.0	6.0
APR 21...	1.3	30	70	13	3.2	1.2	3.6	.3	3.0	7.1
MAY 21...	.85	50	59	31	6.8	3.3	4.9	.6	39	4.6
JUN 10...	.30	89	70	34	7.5	3.6	5.6	1.0	25	5.0
JUL 09...	2.0	--	--	26	6.3	2.6	6.2	.7	22	6.3
AUG 04...	2.7	528	40	14	3.5	1.3	3.8	.7	10	7.3
SEP 08...	1.6	20	149	10	2.7	.7	3.7	.4	<1.0	6.7

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.—Continued

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)
OCT 28...	6.9	.0	8.3	71	41	19.2	.04	.040	.57	.61
FEB 12...	7.4	<.1	7.2	75	35	91.7	.10	.030	.56	.59
MAR 17...	6.9	<.1	5.5	75	26	115	.03	.010	.52	.53
APR 21...	8.3	<.1	5.7	94	32	48.2	.06	.100	.78	.88
MAY 21...	7.5	.1	5.5	70	57	6.3	.05	.050	.38	.43
JUN 10...	7.4	.1	3.4	65	49	7.4	.06	.040	.52	.56
JUL 09...	7.6	<.1	8.9	77	52	--	.07	.030	.71	.74
AUG 04...	7.1	<.1	7.8	90	38	102	.04	<.010	--	.88
SEP 08...	7.6	<.1	7.5	100	--	106	.05	.050	1.3	1.30

DATE	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 28...	--	.52	.65	.050	.030	25	--	5	1.3	--
FEB 12...	.15	.44	.69	.060	.040	--	150	3	3.7	--
MAR 17...	.15	.38	.56	.030	.020	29	--	2	3.1	--
APR 21...	.12	.76	.94	.050	.040	42	--	4	2.1	--
MAY 21...	.08	.35	.48	.050	.050	--	--	0	.00	100
JUN 10...	.15	.41	.62	.090	.070	8.3	4300	3	.34	67
JUL 09...	.24	.50	.81	.050	.030	24	810	--	--	--
AUG 04...	.00	.94	.92	.090	.030	--	5100	4	4.5	--
SEP 08...	.10	1.2	1.4	.030	.040	37	--	4	4.2	75

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)
FEB 12...	1	1	100	20	0	1	<10	<10	0	0
MAY 21...	0	0	100	20	1	<1	10	10	1	0

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)
FEB 12...	3	6	480	270	2	3	10	10	.3
MAY 21...	4	3	420	220	2	0	10	3	.1

DATE	MERCURY DIS-SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	NICKEL, DIS-SOLVED (UG/L AS NI)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
FEB 12...	.1	3	1	0	0	0	0	10	9
MAY 21...	<.1	17	4	0	0	0	0	30	<4

DATE	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)
NOV 19...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)
NOV 19...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.—Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	69	48	49	56	55	44	62	100	60	44	45
2	64	51	47	50	56	55	41	57	94	53	47	46
3	64	50	46	50	58	54	40	61	90	53	49	46
4	64	47	46	48	56	54	40	61	94	56	47	47
5	73	46	44	52	55	46	42	62	96	57	44	47
6	76	46	44	52	56	41	42	63	92	58	45	47
7	74	48	43	50	59	48	44	67	90	60	48	45
8	66	47	43	50	55	49	40	82	92	60	52	46
9	75	46	42	50	57	50	45	71	94	61	46	48
10	78	44	42	52	56	50	45	75	102	60	54	47
11	78	47	42	52	55	50	44	73	101	78	54	48
12	82	46	41	51	54	48	44	71	96	84	58	47
13	82	46	42	50	54	49	44	76	90	84	49	47
14	82	47	42	52	52	47	43	76	105	88	54	48
15	83	48	43	50	52	48	43	73	78	93	49	49
16	83	47	42	52	52	45	47	78	80	94	48	49
17	84	50	46	50	52	46	41	81	85	87	46	50
18	86	49	43	52	48	45	59	80	83	94	47	55
19	87	50	42	52	50	45	45	81	84	98	48	54
20	87	52	42	53	53	44	44	82	56	110	51	54
21	87	50	44	54	53	59	43	82	70	90	53	54
22	88	51	45	54	53	43	42	84	59	88	51	55
23	86	52	44	53	52	46	43	85	57	82	47	54
24	76	49	46	54	54	46	44	86	61	73	45	57
25	67	47	46	54	54	45	44	87	70	58	44	58
26	57	53	46	55	56	47	45	86	63	58	43	60
27	58	50	47	57	56	43	46	83	62	58	43	64
28	55	51	48	53	56	43	45	83	64	59	42	63
29	53	52	48	56	---	43	52	89	64	60	43	64
30	51	49	47	52	---	52	50	82	54	62	44	68
31	50	---	47	55	---	42	---	81	---	50	44	---
MEAN	73	49	44	52	54	48	44	76	81	72	48	52
MAX	88	69	48	57	59	59	59	89	105	110	58	68
MIN	50	44	41	48	48	41	40	57	54	50	42	45

WTR YR 1981 MEAN 58 MAX 110 MIN 40

02231220 ST. MARYS RIVER AT BOULOGNE, FLA.

LOCATION.--Lat 30°46'35", long 81°58'44", Nassau County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, at bridge on U.S. Highways 1, 23, and 301, at Boulogne.

DRAINAGE AREA.--1,180 mi2 (3,060 km2), approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
22...	1230	6.6	7.1	21.0	22.5	6.4
NOV						
18...	0930	--	6.5	20.0	18.0	7.5
DEC						
16...	1145	--	6.1	10.0	11.5	8.6
JAN						
20...	1400	6.6	6.7	15.0	7.0	9.9
FEB						
17...	1350	--	5.4	22.5	14.0	9.0
MAR						
17...	1330	--	5.6	20.0	15.0	7.8
APR						
21...	1355	--	5.6	19.0	24.0	5.3
MAY						
19...	1340	6.7	7.0	31.0	26.0	5.6
JUN						
16...	1305	--	7.3	35.0	30.5	5.3
JUL						
21...	1245	6.1	6.4	31.5	25.5	3.5
AUG						
18...	1325	5.8	5.7	30.5	27.0	5.2
SEP						
22...	1220	6.3	6.2	28.0	22.0	5.4

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT											
22...	95	200	6	.7	40	25	.07	.020	.070	16	3.4
NOV											
18...	60	200	2	.6	90	9.0	.03	.020	.040	25	4.6
DEC											
16...	54	150	5	1.1	90	6.0	.02	.040	.060	22	4.7
JAN											
20...	71	160	11	1.0	40	12	.09	.020	.080	19	3.5
FEB											
17...	60	150	8	2.2	210	3.0	<.02	.020	.050	29	4.2
MAR											
17...	76	100	6	2.2	40	4.0	.03	<.020	.060	17	2.4
APR											
21...	47	300	2	.4	90	6.0	.04	.060	.060	33	6.6
MAY											
19...	93	175	3	.8	<30	29	.12	.020	.050	21	5.8
JUN											
16...	111	90	2	.6	<30	37	.04	<.020	.030	9.0	1.7
JUL											
21...	88	120	6	1.5	70	10	.08	.020	.030	24	2.8
AUG											
18...	56	240	5	1.5	<30	5.0	.05	.040	.050	26	4.3
SEP											
22...	60	300	2	.4	70	11	.06	.090	.040	34	4.7

02314500 SUWANNEE RIVER AT FARGO, GA.

LOCATION.—Lat 30 40'50", long 82 33'38", Clinch County, Hydrologic Unit, 03110201, on downstream side of right bank pier of bridge on U.S. Highway 441 at Fargo, 4 mi (6.4 km) upstream from Suwannoochee Creek, and 12 mi (19 km) downstream from Mixons Ferry damsite.

DRAINAGE AREA.—About 1,260 mi^2 (3,260 km^2), includes part of watershed in Okefenokee Swamp, which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—January 1921 to September 1923 (gage heights only), January 1927 to December 1931, April 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.—WSP 1234: Drainage area. WSP 1504: 1928-30.

GAGE.—Water-stage recorder. Datum of gage is 91.90 ft (28.011 m) National Geodetic Vertical Datum of 1929. Jan. 27, 1921, to Sept. 30, 1923, nonrecording gage at site 1,200 ft (366 m) upstream at datum 3.00 ft (0.914 m) higher. Jan. 27, 1927, to Dec. 31, 1931, and Apr. 20 1937, to June 10, 1938, nonrecording gage at site 1,000 ft (305 m) upstream at datum 1.00 ft (0.305 m) higher, June 11, 1938, to Nov. 26, 1952, nonrecording gage at site 1,000 ft (305 m) upstream at present datum. Oct. 14, 1960, to Oct. 29, 1970, auxiliary water-stage recorder at site about 3 mi (4.8 km) upstream and since Nov. 5, 1971, auxiliary water-stage recorder at site about 2 mi (3.2 km) upstream.

REMARKS.—Records good. Low flow at times affected by manipulation of water level at Mixons Ferry Dam.

AVERAGE DISCHARGE.—48 years (1927-31, 1937-81), 1,080 ft^3/s (30.6 m^3/s), 11.64 in/yr (296 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 13,800 ft^3/s (391 m^3/s) Oct. 1, 5, 6, 1928; maximum gage height, 21.01 ft (6.404 m) Apr. 9, 1973; no flow at times in 1931, 1943, 1954.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 1,700 ft^3/s (48.1 m^3/s) Mar. 8; maximum gage height, 10.03 ft (3.057 m) Mar. 8, no peaks above base of 2,000 ft^3/s (56.6 m^3/s); minimum discharge 11 ft^3/s (0.31 m^3/s) Sept. 14-16, 19-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	327	450	188	149	902	760	178	31	19	25	25
2	51	312	437	182	153	810	790	158	30	20	24	22
3	50	297	422	177	161	724	796	139	29	21	22	22
4	48	286	404	173	157	655	790	124	28	20	25	20
5	47	279	386	169	152	1180	778	110	48	20	25	17
6	45	267	368	165	150	1480	760	101	69	19	21	16
7	43	248	350	170	153	1630	740	126	71	17	20	18
8	42	234	332	190	158	1690	730	169	87	17	19	17
9	41	222	317	190	158	1680	730	173	123	17	19	15
10	39	210	305	186	154	1640	729	166	109	17	20	14
11	38	200	299	182	362	1560	728	159	91	16	21	14
12	44	188	292	178	597	1500	722	150	87	15	19	13
13	55	178	275	174	598	1430	709	141	102	15	20	12
14	52	169	260	171	592	1340	692	132	90	15	19	12
15	49	163	245	172	595	1230	668	123	70	16	18	11
16	46	159	238	172	617	1080	636	115	57	21	17	13
17	43	155	245	170	623	958	602	106	48	17	16	15
18	41	153	245	165	705	845	569	97	42	26	15	13
19	39	149	237	162	1060	768	534	88	39	37	15	12
20	39	141	230	159	1200	696	495	80	41	31	14	11
21	40	134	222	161	1260	633	467	73	43	26	14	12
22	39	128	214	163	1290	606	445	65	37	23	16	12
23	55	124	209	161	1310	648	419	56	32	47	21	12
24	107	213	207	158	1320	673	391	50	29	86	26	11
25	135	429	203	154	1270	668	361	45	27	79	24	11
26	131	436	195	151	1200	646	325	43	25	51	21	11
27	127	443	189	148	1120	623	289	41	24	37	21	11
28	138	480	186	149	998	600	255	40	22	30	36	11
29	196	479	192	158	---	577	225	37	20	26	41	11
30	243	464	198	156	---	595	199	35	19	27	35	11
31	316	---	194	153	---	700	---	33	---	25	29	---
TOTAL	2430	7667	8546	5207	18262	30767	17334	3153	1570	853	678	425
MEAN	78.4	256	276	168	652	992	578	102	52.3	27.5	21.9	14.2
MAX	316	480	450	190	1320	1690	796	178	123	86	41	25
MIN	38	124	186	148	149	577	199	33	19	15	14	11
CFSM	.06	.20	.22	.13	.52	.79	.46	.08	.04	.02	.02	.01
IN.	.07	.23	.25	.15	.54	.91	.51	.09	.05	.03	.02	.01

CAL YR 1980 TOTAL 298807 MEAN 816 MAX 3150 MIN 38 CFSM .65 IN 8.82
WTR YR 1981 TOTAL 96892 MEAN 265 MAX 1690 MIN 11 CFSM .21 IN 2.86

02314500 SUWANNEE RIVER AT FARGO, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 14...	0930	52	3.9	3.7	18.5	18.5	--
NOV 19...	0930	150	--	4.2	9.5	15.5	7.5
DEC 11...	0950	300	--	4.1	9.0	14.0	8.8
JAN 14...	0945	171	3.6	4.1	7.0	4.5	11.9
FEB 10...	0820	154	4.1	4.0	14.5	9.0	10.5
MAR 11...	0950	1580	4.0	4.1	17.0	15.0	6.1
APR 15...	0830	675	4.0	4.1	23.0	23.0	5.8
MAY 12...	1030	152	3.8	4.0	20.0	22.0	3.3
JUN 01...	0945	31	3.7	4.1	28.0	28.0	6.0
JUL 15...	0850	16	4.4	4.4	34.0	29.0	5.6
AUG 12...	0930	19	4.2	4.1	28.5	27.0	5.9
SEP 14...	0920	12	4.3	4.2	27.0	23.5	6.2

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT 14...	48	200	2	--	1.0	<35	7
NOV 19...	58	200	1	--	.6	<30	<1
DEC 11...	59	200	1	--	1.4	<30	2
JAN 14...	52	160	2	--	<.1	<30	<1
FEB 10...	56	160	4	--	.4	<30	<1
MAR 11...	54	160	5	--	.8	<30	4
APR 15...	57	300	1	--	.6	<30	<1
MAY 12...	59	250	1	--	1.0	40	<1
JUN 01...	52	200	1	--	.4	<30	<1
JUL 15...	49	200	1	71	1.2	<30	<1
AUG 12...	51	320	1	77	.8	<30	4
SEP 14...	48	250	1	75	2.2	40	<1

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT						
14...	<.02	<.020	--	.020	41	7.0
NOV						
19...	<.02	.030	--	.020	35	6.4
DEC						
11...	<.02	.020	--	<.020	36	5.8
JAN						
14...	<.02	.060	--	.020	33	5.8
FEB						
10...	--	--	--	<.020	35	5.4
MAR						
11...	<.02	.030	--	<.020	39	7.2
APR						
15...	<.02	.120	--	.020	41	6.4
MAY						
12...	<.02	<.020	--	.020	41	3.7
JUN						
01...	<.02	.040	--	.050	39	6.3
JUL						
15...	<.02	<.020	.70	.040	33	4.6
AUG						
12...	<.02	.040	.71	.050	30	5.8
SEP						
14...	<.02	.030	.60	.040	32	6.8

02316000 ALAPAHA RIVER NEAR ALAPAHA, GA.

LOCATION.--Lat 31°23'03", long 83°11'33", Berrien County, Hydrologic Unit 03110202, near right bank on downstream side of bridge on State Highway 50, 2 mi (3.2 km) east of Alapaha, and 6 mi (9.7 km) upstream from Willacoochee River.
DRAINAGE AREA.--663 mi^2 (1,720 km^2).
PERIOD OF RECORD.--October 1969 to current year. Water-discharge records for water years 1937-76 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT								
22...	1030	.01	73	67	6.2	6.4	18.0	4.7
AUG								
18...	1000	.30	88	84	--	6.7	27.0	5.5

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (NTU)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT										
22...	8	.90	15	2.0	2.9	1.8	7.1	2.0	13	2.3
AUG										
18...	30	2.5	16	.00	3.1	2.0	9.8	2.2	19	3.3

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
22...	10	.1	9.3	61	.00	.01	.020	.54	.56	.26
AUG										
18...	10	<.1	5.8	67	.05	.01	<.010	--	.66	.07

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)
OCT										
22...	.30	.57	.060	.020	20	1	1	3	0	1
AUG										
18...	.59	.67	.050	.020	30	1	1	2	<10	3

DATE	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
22...	670	2	0	220	<.1	<.1	0	20	11
AUG									
18...	700	7	<1	210	.3	.3	<1	6	9.8

02316120 TURKEY BRANCH NEAR FITZGERALD, GA.

LOCATION.--Lat 31°40'45", long 83°15'03", Ben Hill County, Hydrologic Unit 03110202, at bridge on county road 1.8 mi (2.4 km) south of Fitzgerald.
DRAINAGE AREA.--14.5 mi2 (37.6 km2).
PERIOD OF RECORD.--July 1979 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PH (UNITS)	PH LAB (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT 29...	0920	--	6.9	19.0	17.0	.6
NOV 17...	1030	--	7.1	13.5	16.0	.3
DEC 09...	1045	--	6.9	20.5	12.5	.7
JAN 12...	1340	6.6	7.1	.0	4.0	1.9
FEB 09...	1010	6.5	7.0	4.5	8.0	.9
MAR 09...	1020	6.7	7.0	14.0	11.5	1.8
APR 13...	1035	--	7.0	25.0	21.0	.9
MAY 11...	0845	6.7	6.8	22.0	19.5	.4
JUN 04...	0710	--	6.9	25.0	24.0	.3
JUL 13...	0850	6.9	7.0	29.0	27.0	.3
AUG 10...	1020	--	7.3	31.0	23.0	1.2
SEP 16...	1055	7.1	7.1	25.0	20.0	.3

DATE	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 29...	195	100	28	2.8	8650	59	.15	1.50	1.84	20
NOV 17...	357	40	13	18	9300	120	<.02	4.40	3.60	20
DEC 09...	368	30	9	9.2	9300	122	.02	3.52	3.40	20
JAN 12...	364	40	6	4.6	230	102	.26	5.25	2.70	16
FEB 09...	370	70	15	8.4	750	101	.02	5.15	2.85	22
MAR 09...	221	80	12	9.6	2300	55	.18	1.46	1.37	19
APR 13...	209	100	6	7.2	<35	63	<.02	4.32	2.00	16
MAY 11...	226	70	8	5.2	90	63	<.02	2.82	2.22	19
JUN 04...	317	80	21	20	23000	86	.03	4.16	3.10	22
JUL 13...	348	60	8	8.4	4300	118	<.02	4.10	2.76	26
AUG 10...	280	80	16	14	430	94	<.02	3.45	3.00	21
SEP 16...	310	60	10	13	5000	99	.02	3.05	3.18	18

02316218 STUMP CREEK NEAR OCILLA, GA.

LOCATION.—Lat 31°33'07", long 83°13'23", Irwin County, Hydrologic Unit 03110202, at culvert on county road 1.4 mi (2.3 km) upstream of Little Brushy Creek, and 3 mi (4.8 km) southeast of Ocilla.
DRAINAGE AREA.—18.1 mi2 (46.9 km2).
PERIOD OF RECORD.—July 1979 to current year.
REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
29...	0840	.00	--	6.5	18.0	17.0	.8
NOV							
17...	0940	.00	--	7.0	12.0	15.5	.7
DEC							
09...	1000	.00	--	7.0	19.0	12.5	.9
JAN							
12...	1300	.47	6.8	7.2	.0	5.0	8.8
FEB							
09...	0920	.11	6.7	6.8	3.0	6.5	7.1
MAR							
09...	0930	2.6	6.9	7.1	12.5	11.5	10.2
APR							
13...	0950	2.7	6.5	6.6	27.0	19.5	2.6
MAY							
11...	0745	.23	6.2	6.5	17.5	18.0	1.3
JUN							
04...	0635	.00	--	6.9	23.5	22.5	1.0
JUL							
13...	0820	.00	6.7	6.8	28.0	26.0	.3
AUG							
10...	0945	.22	--	6.5	31.0	22.0	.3
SEP							
16...	0925	1.4	7.1	7.2	25.0	19.5	.8

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
29...	155	160	12	1.5	430	43	<.02	.220	.560	29
NOV										
17...	305	160	7	12	<30	84	<.02	.030	.780	67
DEC										
09...	335	350	14	19	62	92	<.02	.640	1.27	37
JAN										
12...	426	60	8	13	930	101	2.9	.190	3.85	26
FEB										
09...	334	70	13	12	930	63	.16	.070	1.80	27
MAR										
09...	306	80	13	20	15000	70	1.2	.190	2.10	28
APR										
13...	164	150	6	7.6	90	40	.06	.420	.880	28
MAY										
11...	201	100	4	3.6	61	40	.10	1.64	.920	8.0
JUN										
04...	203	120	10	3.6	40	52	.06	1.35	.820	19
JUL										
13...	228	300	174	16	4300	98	<.02	9.20	.790	27
AUG										
10...	225	150	3	4.8	95	48	<.02	.590	1.25	25
SEP										
16...	311	90	4	4.8	150	100	.11	1.70	1.84	20

02317500 ALAPAHA RIVER AT STATENVILLE, GA.

LOCATION.—Lat 30°42'14", long 83°02'00", Echols County, Hydrologic Unit 03110202, at downstream side of left bank pier of bridge on State Highway 94, 0.2 mi (0.3 km) west of Statenville.

DRAINAGE AREA.—1,400 mi^2 (3,630 km^2), approximately.

PERIOD OF RECORD.—January to June 1921, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.—WSP 822: 1936, drainage area.

GAGE.—Water-stage recorder. Datum of gage is 76.77 ft (23.400 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Jan. 28 to June 30, 1921, nonrecording gage at site 50 ft (15 m) upstream at datum 2.10 ft (0.64 m) higher. Dec. 10, 1931, to Nov. 30, 1949, nonrecording gage at site 200 ft (61 m) upstream at present datum, and Dec. 1, 1949, to Nov. 22, 1952, nonrecording gage at same site and datum.

REMARKS.—Records good. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.—50 years (1931-81), 1,031 ft^3/s (29.2 m^3/s), 10.00 in/yr (254 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 27,300 ft^3/s (773 m^3/s) Apr. 6, 1948, gage height, 29.8 ft (9.08 m), from graph based on gage readings; minimum, 16 ft^3/s (0.45 m^3/s) Nov. 13, 14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1862, that of Apr. 6, 1948, from information by local resident.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 1,050 ft^3/s (29.7 m^3/s) Apr. 3, gage height, 5.87 ft (1.789 m), no peak above base of 2,500 ft^3/s (70.8 m^3/s); minimum, 24 ft^3/s (0.68 m^3/s) Oct. 17-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	150	67	42	54	175	572	145	53	35	90	139
2	40	125	63	41	75	165	832	134	52	35	81	134
3	42	109	59	50	83	152	1030	124	52	35	103	111
4	39	99	55	47	83	135	998	118	52	35	103	93
5	36	90	53	43	81	706	882	111	52	34	83	79
6	35	81	51	40	78	691	735	105	50	34	69	71
7	33	75	47	44	79	588	639	124	52	33	62	63
8	32	70	46	50	81	475	586	130	64	36	56	59
9	31	66	44	52	81	402	561	132	59	41	52	58
10	29	62	44	53	78	355	534	123	60	41	61	54
11	32	60	47	53	289	316	505	112	68	42	70	51
12	32	56	45	52	534	289	477	102	65	38	60	48
13	30	53	43	51	497	268	456	96	62	34	56	45
14	27	51	41	50	389	255	446	93	69	33	55	42
15	26	49	40	50	327	241	445	92	80	31	60	40
16	25	48	43	49	302	226	447	88	83	29	58	39
17	25	48	47	48	282	209	447	85	69	30	57	39
18	24	47	46	47	347	195	433	84	59	36	56	37
19	25	45	44	46	594	183	402	82	61	49	53	35
20	28	46	42	45	530	170	359	79	51	54	50	34
21	28	45	41	49	449	160	332	74	53	52	48	33
22	28	45	40	49	373	187	307	72	61	51	47	33
23	52	44	41	49	325	250	280	81	59	47	58	33
24	83	89	42	48	284	278	256	68	55	40	61	33
25	65	95	42	47	251	277	233	63	49	38	58	32
26	59	84	44	45	225	263	213	61	47	36	60	32
27	50	88	45	43	205	258	196	61	52	34	71	32
28	66	84	45	46	188	252	177	60	45	34	77	32
29	90	78	43	54	---	247	165	59	41	35	80	31
30	168	71	43	55	---	286	155	57	37	40	95	30
31	184	---	42	55	---	438	---	55	---	61	131	---
TOTAL	1505	2153	1435	1493	7164	9092	14100	2870	1712	1203	2121	1592
MEAN	48.5	71.8	46.3	48.2	256	293	470	92.6	57.1	38.8	68.4	53.1
MAX	184	150	67	55	594	706	1030	145	83	61	131	139
MIN	24	44	40	40	54	135	155	55	37	29	47	30
CFSM	.04	.05	.03	.03	.18	.21	.34	.07	.04	.03	.05	.04
IN.	.04	.06	.04	.04	.19	.24	.37	.08	.05	.03	.06	.04

CAL YR 1980 TOTAL 426264 MEAN 1165 MAX 9370 MIN 24 CFSM .83 IN 11.33
WTR YR 1981 TOTAL 46440 MEAN 127 MAX 1030 MIN 24 CFSM .09 IN 1.23

02317718 NEW RIVER NEAR TIFTON, GA.

LOCATION.—Lat 31°26'33", long 83°28'33", Tift County, Hydrologic Unit 03110203, at bridge on U.S. Highway 82, 1.6 mi (2.6 km) east of Tifton.

DRAINAGE AREA.—10.4 mi^2 (26.9 km^2).

PERIOD OF RECORD.—July 1979 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 29...	1035	2.5	--	7.3	21.0	19.0	1.4
NOV 17...	1120	1.7	--	7.5	15.0	17.5	.7
DEC 09...	1145	2.1	--	7.5	24.0	16.0	3.9
JAN 12...	1130	1.6	7.0	7.5	-1.0	4.0	5.6
FEB 09...	1125	2.1	7.0	7.4	8.0	9.5	5.4
MAR 09...	1110	3.2	7.3	7.4	16.0	15.0	8.1
APR 13...	1140	2.7	--	7.4	29.0	25.0	5.2
MAY 11...	1015	2.0	7.2	7.4	23.5	22.0	4.8
JUN 04...	0745	5.0	--	7.1	27.0	24.0	.8
JUL 13...	0940	2.4	7.0	7.1	29.5	26.0	1.1
AUG 10...	1130	6.0	--	7.2	32.0	26.0	3.0
SEP 16...	1200	7.8	7.3	7.2	30.0	23.0	6.4

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 29...	358	60	19	1.8	930	82	8	.80	4.50	1.80	13
NOV 17...	539	40	9	>6.6	9300	179	6	.02	13.6	6.20	23
DEC 09...	602	45	8	>7.2	230000	188	7	.04	10.0	7.40	24
JAN 12...	553	30	7	>7.2	230	173	5	.70	13.0	6.20	20
FEB 09...	449	40	19	>6.7	162000	138	9	.36	8.80	5.00	25
MAR 09...	344	40	16	20	90	97	21	1.5	5.50	2.84	18
APR 13...	375	55	16	28	2300	122	29	.06	5.50	4.10	23
MAY 11...	461	35	18	10	4300	131	27	1.1	7.84	4.45	23
JUN 04...	395	65	15	9.4	9300	115	9	.03	6.40	3.65	17
JUL 13...	290	120	34	>6.3	150000	84	22	<.02	5.15	2.60	24
AUG 10...	247	100	33	6.4	230000	59	25	.33	2.66	1.20	12
SEP 16...	268	90	26	6.4	930000	54	--	3.9	--	1.20	9.5

02317748 WITHLACOOCHEE RIVER NEAR BEMISS, GA.

LOCATION.--Lat 30°57'24", long 83°16'12", Lowndes County, Hydrologic Unit 03110203, on downstream side of county bridge on Skipper Bridge Road, 1.9 mi (3.1 km) downstream from Cat Creek, and 3.0 mi (4.8 km) northwest of Bemiss.

DRAINAGE AREA.--501 mi^2 (1,300 km^2), approximately.

PERIOD OF RECORD.--October 1976 to December 1981 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m), from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft^3/s (396 m^3/s) Feb. 26, 1979, gage height, 22.24 ft (6.779 m), from rating curve extended above 7,000 ft^3/s (198 m^3/s) and runoff comparison with nearby station; minimum discharge, 2.7 ft^3/s (0.076 m^3/s) Oct. 21, 22, 1981.

EXTREMES FOR 1981 WATER YEAR.--Maximum discharge, 1,170 ft^3/s (33.1 m^3/s) Apr. 3, gage height, 11.41 ft (3.478 m), no peaks above base of 1,600 ft^3/s (45.3 m^3/s); minimum discharge, 4.0 ft^3/s (0.11 m^3/s) Sept. 28, 29.

EXTREMES FOR OCTOBER 1, 1981 TO DECEMBER 31, 1981.--Maximum discharge, 388 ft^3/s (11.0 m^3/s) Dec. 31, gage height, 6.79 ft (2.070 m), no peaks above base of 1,600 ft^3/s (45.3 m^3/s); miniuum discharge, 2.7 ft^3/s (0.076 m^3/s) Oct. 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	74	28	31	36	101	592	28	11	4.4	40	66
2	49	50	25	30	63	94	961	23	9.6	4.6	79	38
3	30	36	22	29	102	87	1140	20	9.3	4.7	90	31
4	20	29	20	28	87	81	1090	17	8.8	5.1	64	26
5	15	25	18	24	86	310	1120	15	20	7.1	50	21
6	12	21	17	22	81	469	1010	14	46	7.1	38	19
7	10	19	17	39	92	420	725	35	60	6.3	32	17
8	8.9	16	17	67	95	344	493	46	56	5.9	34	17
9	8.1	15	25	57	89	305	341	44	38	8.9	39	17
10	6.9	14	20	48	80	281	282	47	37	6.6	44	15
11	6.1	12	19	44	379	252	234	45	41	6.4	28	13
12	5.7	11	18	38	556	224	197	36	55	6.6	19	12
13	5.3	11	18	31	451	198	167	30	71	6.8	15	11
14	4.8	11	17	28	304	166	143	26	102	6.1	18	11
15	4.7	10	17	27	240	138	120	26	120	5.1	16	9.8
16	4.6	11	19	27	207	123	108	24	105	4.5	15	9.1
17	4.8	11	22	28	192	120	91	21	75	4.3	12	9.0
18	4.9	16	22	26	208	109	79	18	50	4.3	10	8.8
19	4.8	22	21	25	300	102	67	15	34	7.1	9.1	7.5
20	5.7	26	20	24	305	98	58	13	24	6.0	8.1	7.3
21	7.4	19	20	30	249	94	94	12	19	24	7.8	7.4
22	7.5	10	18	33	219	161	112	11	15	92	7.8	7.0
23	12	9.9	38	30	206	273	98	9.5	12	44	21	6.6
24	44	35	57	29	183	269	83	8.1	10	26	50	5.9
25	39	56	51	28	156	243	70	7.4	8.9	16	28	5.0
26	25	38	46	28	140	240	60	7.2	7.7	12	15	4.5
27	18	43	41	26	126	238	50	8.1	7.1	11	17	4.3
28	28	48	37	35	111	224	42	9.4	6.4	10	30	4.0
29	81	39	34	47	---	210	35	8.3	5.6	11	44	4.1
30	97	32	34	43	---	270	31	11	4.8	111	44	4.1
31	92	---	32	38	---	499	---	12	---	55	68	---
TOTAL	735.2	769.9	810	1040	5343	6743	9693	647.0	1069.2	529.9	992.8	418.4
MEAN	23.7	25.7	26.1	33.5	191	218	323	20.9	35.6	17.1	32.0	13.9
MAX	97	74	57	67	556	499	1140	47	120	111	90	66
MIN	4.6	9.9	17	22	36	81	31	7.2	4.8	4.3	7.8	4.0
CFSM	.05	.05	.05	.07	.38	.44	.65	.04	.07	.03	.06	.03
IN.	.05	.06	.06	.08	.40	.50	.72	.05	.08	.04	.07	.03

CAL YR 1980 TOTAL 163480.5 MEAN 447 MAX 6840 MIN 4.3 CFSM .89 IN 12.14
WTR YR 1981 TOTAL 28791.4 MEAN 78.9 MAX 1140 MIN 4.0 CFSM .16 IN 2.14

02317748 WITHLACOOCHEE RIVER NEAR BEMISS, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	7.6	26									
2	3.7	6.5	70									
3	4.1	6.8	108									
4	3.4	7.9	82									
5	3.4	73	65									
6	3.3	162	55									
7	3.2	111	47									
8	3.0	52	41									
9	3.3	32	38									
10	3.4	46	41									
11	4.0	102	43									
12	5.0	88	42									
13	3.8	64	41									
14	3.5	54	48									
15	3.5	46	140									
16	3.4	39	181									
17	3.3	43	155									
18	2.9	45	143									
19	3.1	42	135									
20	3.1	43	121									
21	2.8	40	110									
22	2.8	34	108									
23	2.9	31	109									
24	3.2	31	107									
25	4.5	31	116									
26	18	28	123									
27	22	27	112									
28	15	28	102									
29	10	28	200									
30	9.7	26	261									
31	9.3	---	272									
TOTAL	170.6	1374.8	3242									
MEAN	5.50	45.8	105									
MAX	22	162	272									
MIN	2.8	6.5	26									
CFSM	.01	.09	.21									
IN.	.01	.10	.24									

CAL YR 1981 TOTAL 31263.7 MEAN 85.7 MAX 1140 MIN 2.8 CFSM .17 IN 2.32

02317749 WITHLACOOCHEE RIVER ABOVE VALDOSTA, GA.

LOCATION.--Lat 30°55'57", long 83°17'22", Lowndes County, Hydrologic Unit 03110203, at county highway bridge, 1.5 mi (2.4 km) upstream from Bay Branch, and 7 mi (11 km) north of Valdosta.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 14...	1300	5.4	6.5	6.6	25.0	19.0	--
NOV 19...	1350	13	6.4	6.8	15.0	15.5	7.2
DEC 11...	1415	22	--	6.9	14.5	14.0	8.9
JAN 14...	1430	31	6.9	7.3	11.0	4.0	12.4
FEB 10...	1325	80	--	7.0	24.0	10.0	10.7
MAR 11...	1445	241	6.0	6.3	23.0	14.0	8.5
APR 15...	1230	116	5.9	6.2	30.0	21.5	5.5
MAY 12...	1345	35	6.1	6.6	28.0	20.0	6.0
JUN 01...	1250	12	6.6	7.1	33.0	25.5	6.3
JUL 15...	1225	6.7	6.9	7.1	37.5	28.5	6.7
AUG 12...	1310	19	6.5	6.7	31.0	25.0	6.0
SEP 14...	1320	11	7.0	6.9	34.0	23.0	7.0

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 14...	143	60	4	.6	430	21	.21	<.020	.330	7.5
NOV 19...	173	60	2	.9	40	19	.13	.020	.360	9.0
DEC 11...	188	75	2	.8	<30	17	.44	.020	.260	9.0
JAN 14...	230	50	3	<.1	40	22	.72	<.020	.380	9.0
FEB 10...	195	60	5	1.4	230	18	.64	.030	.330	14
MAR 11...	113	120	8	1.7	90	7.0	.09	.040	.190	23
APR 15...	100	160	4	.6	<50	10	.33	.080	.280	24
MAY 12...	217	90	3	.8	<50	17	.88	<.020	.290	13
JUN 01...	183	60	3	.5	40	24	.24	.050	.480	9.0
JUL 15...	196	50	2	.8	40	22	.12	.040	.650	9.8
AUG 12...	107	120	5	.8	<30	14	.15	.050	.950	13
SEP 14...	187	80	3	.3	<30	28	.11	.050	.740	13

02317757 WITHLACOOCHEE RIVER NEAR VALDOSTA, GA.

LOCATION.--Lat 30°51'00", long 83°20'23", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 94, 0.8 mi (1.3 km) upstream from Little River, and 4 mi (6 km) northwest of Valdosta.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 14...	1210	9.0	6.7	7.2	23.5	19.0	--
NOV 19...	1250	13	6.6	7.1	14.0	16.0	5.2
DEC 11...	1320	16	--	7.0	14.0	15.0	2.4
JAN 14...	1345	15	6.6	7.0	10.5	7.0	8.0
FEB 10...	1300	46	--	7.0	22.0	11.0	8.6
MAR 11...	1350	225	6.2	6.5	22.0	14.0	8.3
APR 15...	1200	72	6.0	6.4	32.0	22.0	5.2
MAY 12...	1320	9.0	--	6.8	26.0	20.0	5.3
JUN 01...	1225	6.2	6.5	7.0	35.0	24.0	2.9
JUL 15...	1150	4.8	6.9	7.1	37.5	27.0	3.8
AUG 12...	1245	4.9	6.8	7.0	34.5	25.0	4.9
SEP 14...	1240	4.3	7.0	6.9	34.5	22.0	6.9

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 14...	370	30	6	3.4	90	84	<.02	4.85	4.03	8.0
NOV 19...	354	30	5	2.6	750	76	.06	5.25	2.60	9.0
DEC 11...	262	50	12	4.2	210	60	.02	4.70	4.80	10
JAN 14...	256	30	5	2.2	230	31	3.7	.810	1.69	9.0
FEB 10...	183	60	13	4.0	70	20	.49	.710	.840	15
MAR 11...	114	160	10	1.8	40	9.0	.13	.280	.220	20
APR 15...	102	120	5	2.0	430	11	.32	.410	.320	23
MAY 12...	222	30	6	6.2	2300	26	2.0	.480	.600	9.0
JUN 01...	259	35	6	3.2	2300	32	1.7	1.31	.770	6.0
JUL 15...	276	20	5	3.0	430	36	1.7	1.84	.900	5.0
AUG 12...	220	50	11	4.2	9300	38	1.1	1.65	.590	8.5
SEP 14...	217	20	8	2.4	930	31	1.2	.550	.560	12

02317800 LITTLE RIVER NEAR TIFTON, GA.

LOCATION.--Lat 31°26'21", long 83°33'38", Tift County, Hydrologic Unit 03110204, at bridge on U.S. Highway 82, 3 mi (4.8 km) west of Tifton.

DRAINAGE AREA.--145 mi2 (376 km2), approximately.

PERIOD OF RECORD.--July 1979 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
29...	1120	.00	--	6.7	22.0	19.0	6.4
NOV							
17...	1200	.00	--	7.3	14.5	16.5	2.9
DEC							
09...	1230	.30	5.6	5.6	23.5	15.0	3.8
JAN							
12...	1425	2.7	6.5	6.5	6.5	4.5	9.9
FEB							
09...	1330	4.9	--	6.4	12.0	9.0	9.4
MAR							
09...	1230	13	6.2	6.7	18.0	13.5	6.0
APR							
13...	1210	22	--	6.6	26.5	20.5	4.2
MAY							
11...	1110	.25	6.5	6.7	24.0	23.0	2.3
JUN							
04...	0810	.00	--	7.1	29.0	25.0	.9
JUL							
13...	1000	.00	8.2	8.0	29.0	27.5	.2
AUG							
10...	1200	.00	--	6.9	32.5	28.0	8.0
SEP							
16...	0750	22	6.3	6.1	23.0	20.0	3.0

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
29...	280	40	6	1.2	9300	35	3	3.1	1.50	.080	9.0
NOV											
17...	261	50	3	2.0	<30	59	2	.06	.490	.040	13
DEC											
09...	147	30	2	1.7	930	4.0	<1	<.02	<.020	<.020	12
JAN											
12...	105	30	2	.7	40	9.0	2	.08	<.020	.020	8.0
FEB											
09...	111	30	7	.9	40	12	<1	.02	.020	<.020	8.0
MAR											
09...	102	60	8	1.0	90	17	2	<.02	<.020	<.020	13
APR											
13...	97	120	3	1.4	<30	14	2	<.02	.050	.020	22
MAY											
11...	149	325	6	2.7	40	49	3	<.02	.280	.070	30
JUN											
04...	208	200	12	6.8	230	63	9	.03	.220	.090	27
JUL											
13...	243	150	18	32	<60	105	104	.02	.790	.170	33
AUG											
10...	224	50	6	2.0	4300	44	7	.10	.140	.040	9.0
SEP											
16...	91	275	4	2.6	7500	19	--	.02	.230	.060	32

02318500 WITHLACOOCHEE RIVER NEAR QUITMAN, GA.

LOCATION.—Lat 30°47'35", long 83°27'13", Brooks-Lowndes County line, Hydrologic Unit 03110203, at bridge on U.S. Highway 84, 4 mi (6.4 km) upstream from Piscola Creek, 6 mi (9.6 km) east of Quitman, and 9 mi (14.5 km) downstream from Little River.

DRAINAGE AREA.—1,480mi^2 (3,830 km^2).

PERIOD OF RECORD.—July 1977 to current year.

REMARKS.—Laboratory chemical analyses by Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for water years 1929-31, 1938-48 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 14...	1110	11	--	6.7	21.0	19.0	--
NOV 19...	1125	28	6.3	6.8	12.5	15.0	5.1
DEC 11...	1230	45	--	6.7	13.0	13.0	7.5
JAN 14...	1255	40	6.8	6.9	12.5	4.5	12.0
FEB 10...	1105	110	6.5	6.7	20.0	10.0	9.2
MAR 11...	1250	690	6.2	6.7	19.0	15.0	8.4
APR 15...	1100	362	6.1	6.3	29.0	22.5	5.4
MAY 12...	1220	62	6.1	6.6	26.0	22.0	7.4
JUN 01...	1130	13	6.5	6.9	31.5	25.0	4.3
JUL 15...	1050	13	7.0	7.1	36.0	28.0	4.9
AUG 12...	1200	22	6.7	6.9	31.0	25.5	4.6
SEP 14...	1150	63	6.6	6.4	32.5	24.0	6.0

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 14...	122	70	6	2.4	<30	19	1.0	<.020	.560	10
NOV 19...	152	50	3	1.6	90	24	1.1	.120	.800	8.5
DEC 11...	150	55	3	2.1	40	18	1.3	.380	.730	9.0
JAN 14...	102	50	6	.7	<30	13	.80	<.020	.560	10
FEB 10...	119	65	8	1.4	<30	12	.66	.240	.410	11
MAR 11...	102	160	10	2.6	90	9.0	.22	.130	.200	16
APR 15...	90	120	5	1.1	150	9.0	.42	.140	.240	18
MAY 12...	104	75	5	1.9	90	17	.90	.020	.460	10
JUN 01...	169	35	3	.8	<30	24	1.3	.060	.850	6.0
JUL 15...	224	30	31	1.0	40	33	2.2	.020	1.26	7.7
AUG 12...	162	100	6	.7	<30	21	2.0	.070	1.25	12
SEP 14...	110	120	4	.5	150	10	.63	.070	.380	22

02318700 OKAPILCO CREEK AT STATE HIGHWAY 33, NEAR QUITMAN, GA.

LOCATION.--Lat 30°49'32", long 83°33'45", Brooks County, Hydrologic Unit 03110203, at bridge on State Highway 33, 3.0 mi (4.8 km) north of Quitman.

DRAINAGE AREA.--269 mi^2 (697 km^2), approximately.

PERIOD OF RECORD.--December 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 110 ft (34 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height record, Dec. 25 to Jan. 13, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,100 ft^3/s (116 m^3/s) Mar. 15, 1980, gage height, 13.45 ft (4.100 m); no flow Sept. 6-8, 9-28, 1980, Oct. 10-27, July 15-18, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 840 ft^3/s (23.8 m^3/3) Apr. 3, gage height, 10.54 ft (3.213 m), no peaks above base of 1,200 ft^3/s (34.0 m^3/s); minimum discharge, no flow Oct. 10-27, July 15-18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.62	3.2	2.8	2.0	5.1	49	289	13	.97	.59	13	2.7
2	.60	2.3	2.2	1.9	13	45	479	10	.58	.38	13	3.2
3	.43	1.7	1.7	1.8	21	43	792	8.1	.40	.29	7.7	2.2
4	.30	1.2	1.4	1.8	17	39	814	6.4	.31	.24	3.8	1.5
5	.20	.97	1.2	1.7	13	166	783	5.2	.25	.18	2.6	1.5
6	.15	.75	1.1	2.5	10	219	755	4.6	6.0	.14	1.6	1.2
7	.11	.53	1.2	3.7	13	185	637	5.4	15	.09	1.2	.80
8	.06	.42	1.1	4.8	16	187	399	7.1	28	.08	.82	3.0
9	.02	.36	1.1	4.0	17	231	245	13	23	.14	.66	24
10	.00	.32	1.3	3.5	14	276	163	23	12	.12	.58	21
11	.00	.34	2.6	3.1	156	239	116	33	22	.09	.40	11
12	.00	.31	2.9	2.8	247	150	91	39	33	.07	1.8	6.4
13	.00	.25	2.4	2.4	99	95	78	35	67	.04	2.4	4.0
14	.00	.20	2.1	2.2	77	76	68	27	42	.03	9.3	2.5
15	.00	.17	2.0	2.1	78	65	59	21	24	.00	16	1.6
16	.00	.15	2.1	2.0	116	57	51	16	23	.00	8.2	1.2
17	.00	.15	2.9	1.9	154	51	44	12	27	.00	4.5	1.1
18	.00	.14	3.1	1.6	137	47	38	8.6	27	.00	2.7	.86
19	.00	.13	2.8	1.5	157	44	34	6.6	21	.06	1.6	.59
20	.00	.12	2.5	1.5	144	39	30	4.7	15	.05	1.0	.46
21	.00	.10	2.2	1.9	121	37	28	4.1	9.8	.14	.74	.37
22	.00	.09	3.5	2.2	97	53	28	2.9	6.5	2.3	.61	.30
23	.00	.08	6.0	2.2	85	106	27	2.0	4.6	2.3	.54	.25
24	.00	2.7	4.1	2.1	80	107	26	1.6	4.7	1.0	.61	.20
25	.00	9.2	3.8	2.0	72	119	24	1.2	6.3	.34	.52	.16
26	.00	9.2	3.2	2.0	64	143	22	.93	5.7	.22	.38	.12
27	.00	9.0	2.8	1.7	58	178	22	1.2	3.3	.08	.43	.10
28	.03	7.8	2.5	3.9	53	187	21	2.0	2.1	.05	.77	.07
29	3.2	5.3	2.3	8.2	---	151	19	3.9	1.4	.01	.89	.05
30	4.7	3.7	2.2	7.6	---	138	16	2.9	.92	3.4	1.1	.02
31	5.3	---	2.1	6.4	---	233	---	1.7	---	7.6	1.6	---
TOTAL	15.72	60.89	75.2	89.0	2134.1	3755	6198	323.13	432.83	20.03	101.05	92.45
MEAN	.51	2.03	2.43	2.87	76.2	121	207	10.4	14.4	.65	3.26	3.08
MAX	5.3	9.2	6.0	8.2	247	276	814	39	67	7.6	16	24
MIN	.00	.08	1.1	1.5	5.1	37	16	.93	.25	.00	.38	.02
CFSM	.002	.008	.009	.01	.28	.45	.77	.04	.05	.002	.01	.01
IN.	.00	.01	.01	.01	.30	.52	.86	.04	.06	.00	.01	.01

CAL YR 1980 TOTAL 83589.12 MEAN 228 MAX 3930 MIN .00 CFSM .85 IN 11.56

WTR YR 1981 TOTAL 13297.39 MEAN 36.4 MAX 814 MIN .00 CFSM .14 IN 1.84

02318725 OKAPILCO CREEK NEAR QUITMAN, GA.

LOCATION.—Lat 30°47'10", long 83°31'33", Brooks County, Hydrologic Unit 03110203, at U.S. Highways 84 and 221, 1.8 mi (2.9 km) east of Quitman.

DRAINAGE AREA.—278 mi^2 (720 km^2), approximately.

PERIOD OF RECORD.—November 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 14...	1145	.04	8.1	8.2	22.5	19.5	--
NOV 19...	1145	4.3	7.2	7.4	11.0	16.0	5.3
DEC 11...	1250	5.7	--	7.5	14.0	14.0	7.7
JAN 14...	1320	7.8	7.3	7.5	11.5	5.0	9.9
FEB 10...	1140	22	6.5	6.7	22.0	9.5	8.0
MAR 11...	1310	266	5.6	5.8	20.0	14.0	6.9
APR 15...	1125	81	5.9	6.1	29.5	21.0	4.7
MAY 12...	1250	41	5.9	6.4	26.0	19.5	6.8
JUN 01...	1150	6.4	6.8	7.1	31.5	24.5	3.0
JUL 15...	1100	1.4	8.5	8.0	36.0	28.0	2.6
AUG 12...	1215	5.4	7.8	7.7	34.0	25.5	5.1
SEP 14...	1205	11	6.8	6.6	34.0	23.0	.8

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 14...	402	--	36	>16	75000	151	<.02	3.85	.810	17
NOV 19...	329	30	26	12	9300	102	1.5	.250	3.18	24
DEC 11...	292	40	10	15	29000	81	2.3	.160	2.45	25
JAN 14...	196	30	8	1.4	2300	56	1.3	.840	1.61	22
FEB 10...	88	50	8	1.8	70	12	.50	.110	.250	10
MAR 11...	109	120	15	2.8	230	5.0	.44	.080	.110	16
APR 15...	99	150	9	1.4	2300	8.0	.48	.270	.260	21
MAY 12...	170	100	16	3.0	2100	10	1.7	.160	.520	31
JUN 01...	240	60	20	12	210C	41	1.4	1.04	1.38	13
JUL 15...	328	40	25	>13	43000	105	.02	2.42	3.30	41
AUG 12...	346	50	26	>14	23000	126	.04	2.70	2.90	25
SEP 14...	118	120	16	3.1	7500	27	.48	1.00	.880	15

02318960 WITHLACOOCHEE RIVER NEAR CLYATTVILLE, GA.

LOCATION.—Lat 30°38'07", long 83°18'41", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 31, 4.3 mi (6.9 km) south of Clyattville.

DRAINAGE AREA.—2,030 mi^2 (5,260 km^2), approximately.

PERIOD OF RECORD.—November 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 14...	1040	70	--	7.8	20.5	19.0	--
NOV 19...	1100	105	--	7.7	13.5	17.5	4.9
DEC 11...	1200	115	--	7.7	16.0	13.0	5.7
JAN 14...	1210	130	--	7.8	9.5	4.5	8.0
FEB 10...	1025	288	7.2	7.3	14.5	10.5	9.0
MAR 11...	1220	1520	6.4	6.9	20.0	15.0	7.8
APR 15...	1030	734	6.7	7.1	30.0	21.5	4.5
MAY 12...	1155	227	7.0	7.4	23.0	21.0	6.1
JUN 01...	1100	122	7.4	7.8	31.0	23.0	4.4
JUL 15...	1025	115	7.8	8.0	35.5	24.0	6.0
AUG 12...	1125	124	7.6	7.8	30.5	24.0	4.4
SEP 14...	1110	200	7.3	7.2	32.0	22.0	4.1

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 14...	219	20	3	.7	150	98	9	.31	<.020	.190	3.0
NOV 19...	211	30	2	.8	<30	89	<1	.27	.030	.160	4.0
DEC 11...	202	30	2	1.1	40	85	2	.28	.040	.180	4.0
JAN 14...	182	20	3	.3	<30	70	<1	.66	<.020	.240	5.0
FEB 10...	130	55	6	1.0	<30	35	3	.50	.110	.230	10
MAR 11...	93	120	13	1.8	40	14	8	.22	.080	.140	15
APR 15...	115	120	4	.6	<30	30	<1	.36	.120	.200	16
MAY 12...	190	50	2	.4	<30	62	<1	.64	<.020	.210	4.0
JUN 01...	235	10	2	.5	<30	100	<1	.23	.020	.120	2.0
JUL 15...	222	10	1	.4	<30	95	<1	.07	.020	.150	2.0
AUG 12...	210	30	1	1.2	<30	76	3	.56	.030	.340	3.5
SEP 14...	139	80	3	1.1	40	44	2	.48	.030	.300	16

02327205 OCHLOCKONEE RIVER NEAR MOULTRIE, GA.

LOCATION.—Lat 31°08'31", long 83°48'13", Colquitt County, Hydrologic Unit 03120002, at bridge on county road 1 mi (1.6 km) from U.S. Highway 314, and 3.0 mi (4.8 km) south of Moultrie.

DRAINAGE AREA.—103 mi² (267 km²).

PERIOD OF RECORD.—July 1979 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 13...	0605	1.6	7.1	7.4	7.5	15.5	.2
NOV 18...	0805	3.8	--	7.7	15.0	17.0	.2
DEC 10...	0800	3.2	6.9	7.3	18.5	15.0	.2
JAN 13...	0845	3.1	6.8	7.3	-6.0	3.0	.7
FEB 11...	0915	170	6.7	6.7	15.0	13.0	4.5
MAR 10...	0915	51	6.6	6.8	11.0	11.5	4.7
APR 14...	0850	28	--	7.3	24.0	20.0	.8
MAY 13...	0815	4.5	7.1	7.5	23.0	20.0	.6
JUN 03...	0835	4.7	7.2	7.3	29.0	24.0	.7
JUL 14...	0745	4.4	7.7	7.6	29.5	26.5	.3
AUG 11...	0810	10	--	7.2	29.0	24.0	.2
SEP 15...	0830	3.5	7.6	7.8	25.5	22.0	.2

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 13...	1340	80	44	24	2400000	270	33	<.02	29.4	6.70	32
NOV 18...	1210	60	60	>3.5	245	321	13	.02	33.8	7.50	28
DEC 10...	1140	40	13	>13	230000	192	--	<.02	34.4	5.70	24
JAN 13...	1030	50	23	3.0	1500000	205	11	.02	21.4	5.30	37
FEB 11...	174	100	72	5.5	9300	17	34	.60	1.45	.390	13
MAR 10...	214	80	8	4.0	38	21	5	.03	2.00	.400	14
APR 14...	337	130	5	6.5	230	50	<1	.08	4.00	1.00	22
MAY 13...	794	70	9	10	150000	132	1	<.02	15.8	3.30	24
JUN 03...	1130	70	15	19	4300	184	9	.03	24.8	3.75	24
JUL 14...	949	50	9	17	75000	221	11	<.02	35.0	5.10	38
AUG 11...	706	60	8	>5.8	43000	133	10	<.02	14.4	1.90	17
SEP 15...	1080	60	30	>1.7	430000	299	7	.02	27.8	4.40	27

02327500 OCHLOCKONEE RIVER NEAR THOMASVILLE, GA.

LOCATION.—Lat 30°52'32", long 84°02'44", Thomas County, Hydrologic Unit 03120002, at bridge on U.S. Highway 84, 2 mi (3.2 km) upstream from Seaboard Coast Line Railroad bridge, 4 mi (6.4 km) upstream from Barnetts Creek, 5 mi (8.0 km) northwest of Thomasville, and 6 mi (9.6 km) downstream from Little Ochlockonee River.
DRAINAGE AREA.—550 mi^2 (1,420 km^2), approximately.
PERIOD OF RECORD.—February 1968 to current year.
REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Records of discharge for the water years 1937-71 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 13...	0750	14	6.9	7.2	11.0	17.0	3.8
NOV 18...	0915	17	--	7.4	15.0	17.0	2.3
DEC 10...	0915	29	--	7.3	21.0	13.5	3.8
JAN 13...	0950	41	6.8	7.3	-1.5	2.5	9.8
FEB 11...	1005	310	6.7	7.0	16.0	12.0	5.0
MAR 10...	1010	420	6.5	6.9	16.5	13.5	7.4
APR 14...	0940	195	--	6.7	25.0	20.5	5.5
MAY 13...	0935	52	--	7.0	27.0	20.0	4.4
JUN 03...	0935	70	6.6	6.8	30.0	24.0	3.1
JUL 14...	0910	34	--	7.5	31.0	27.0	2.2
AUG 11...	0905	53	7.2	7.0	31.0	25.0	3.5
SEP 15...	0920	30	7.0	7.1	27.0	22.0	3.7

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 13...	605	30	8	3.4	70	85	4.3	3.36	3.40	8.0
NOV 18...	486	40	9	5.8	1500	80	2.2	2.10	3.00	10
DEC 10...	351	40	9	4.0	1500	63	2.2	.800	1.94	10
JAN 13...	289	40	7	1.1	230	40	2.7	1.27	1.20	7.0
FEB 11...	140	120	33	3.9	9300	19	.99	.430	.660	19
MAR 10...	113	120	15	2.2	930	14	.44	.300	.330	14
APR 14...	118	120	10	1.5	90	19	.80	.210	.420	15
MAY 13...	225	80	15	1.4	2300	32	1.5	.320	1.15	13
JUN 03...	260	100	18	3.8	430	28	2.1	1.35	1.12	11
JUL 14...	256	--	10	3.7	140	45	2.0	.440	1.12	13
AUG 11...	240	100	14	2.0	230	32	1.7	.250	.800	9.0
SEP 15...	444	60	8	1.6	150	46	5.7	.270	2.04	11

02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.

LOCATION.--Lat 30°43'53", long 84°14'12", Grady County, Hydrologic Unit 03120003, at county highway bridge, 1.5 mi (2.4 km) downstream from Tired Creek, and 6.5 mi (10.5 km) east of Calvary.

DRAINAGE AREA.--930 mi^2 (2,410 km^2), approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 13...	0830	39	7.1	7.2	11.0	17.0	7.5
NOV 18...	0955	59	--	7.3	15.5	16.5	7.5
DEC 10...	1000	81	6.9	7.4	21.0	13.0	8.4
JAN 13...	1030	128	--	7.4	1.0	2.0	12.5
FEB 11...	1035	844	6.4	6.7	16.5	12.0	9.2
MAR 10...	1045	1150	6.4	6.8	14.0	14.0	7.6
APR 14...	1010	500	--	6.7	27.0	20.0	6.2
MAY 13...	1010	139	--	7.3	26.0	20.0	5.2
JUN 03...	1010	174	6.4	6.9	31.5	24.0	4.7
JUL 14...	0950	105	--	7.3	33.0	27.0	5.3
AUG 11...	0940	165	6.9	7.0	30.5	25.0	6.2
SEP 15...	0955	103	7.0	7.0	27.5	22.0	6.1

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 13...	309	40	10	--	.8	90	19	1.9	<.020	--	.580	7.5
NOV 18...	272	60	7	--	1.1	70	5	1.7	.030	--	.560	19
DEC 10...	216	40	7	--	1.4	430	4	1.6	.160	--	.650	8.0
JAN 13...	351	40	7	--	.7	9300	2	1.6	.130	--	.590	7.0
FEB 11...	191	160	108	--	3.2	23000	104	.66	.180	--	.470	16
MAR 10...	183	120	18	--	1.5	160	7	.40	.150	--	.220	15
APR 14...	119	150	10	--	1.3	230	5	.70	.180	--	.320	18
MAY 13...	184	100	15	--	1.0	230	9	1.0	.060	--	.530	10
JUN 03...	182	100	22	--	1.7	230	9	1.1	.290	--	.510	10
JUL 14...	173	100	12	--	.7	430	10	1.3	.070	--	.560	12
AUG 11...	211	100	13	23	1.2	150	1	1.8	.230	.80	.700	8.5
SEP 15...	192	80	11	27	.8	30	5	1.5	.120	.50	.580	12

02330450 CHATTAHOOCHEE RIVER AT HELEN, GA.

LOCATION.—Lat 34°42'03", long 83°43'44", White County, Hydrologic Unit 03130001, on downstream side of bridge on Georgia Highways 17 and 75 at Helen, and 1.1 mi (1.8 km) downstream from Smith Creek.
DRAINAGE AREA.—44.7 mi² (116 km²).
PERIOD OF RECORD.—May to September 1981. Miscellaneous low-flow measurements, water years 1953, 1955.
GAGE.—Water-stage recorder. Datum of gage is 1,404.04 ft (427.951 m) National Geodetic Vertical Datum of 1929.
REMARKS.—Records good. Some regulation at low flow on Smith Creek by Unicoi Lake by Unicoi State Park.
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,280 ft³/s (36.2 m³/s) May 27, 1981, gage height, 3.50 ft (1.067 m); minimum daily discharge, 31 ft³/s (0.88 m³/s) Sept. 29, 1981.
EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of August 23, 1967, reached a discharge of 11,000 ft³/s (312 m³/s) from contracted-opening computation at highway bridge 2 mi (3.2 km) downstream at a drainage area of 48.2 mi² (km²).
EXTREMES FOR MAY 5, 1981 TO SEPTEMBER 30, 1981.—Peak discharges above base of 1,200 ft³/s) (34.0 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 27	0630	*1280	36.2	3.50	1.067

Minimum daily discharge, 31 ft³/s (0.88 m³/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	124	80	57	38
2								---	303	98	80	37
3								---	422	98	56	39
4								---	464	81	51	154
5								69	312	100	50	58
6								76	244	89	49	78
7								82	210	79	47	254
8								69	182	72	53	91
9								66	161	68	45	63
10								74	147	66	47	53
11								86	136	66	48	48
12								69	128	67	45	45
13								65	143	65	42	43
14								66	122	60	41	42
15								78	114	58	39	56
16								66	109	60	39	63
17								67	105	59	40	44
18								68	102	58	40	40
19								98	100	72	39	40
20								85	98	61	40	39
21								76	94	56	42	38
22								68	90	52	39	37
23								64	86	50	38	37
24								60	87	50	36	36
25								59	94	73	37	35
26								101	82	53	35	34
27								633	78	57	34	34
28								244	78	51	33	33
29								163	76	48	34	31
30								133	75	48	34	32
31								129	---	48	33	---
TOTAL								---	4566	2043	1343	1672
MEAN								---	152	65.9	43.3	55.7
MAX								---	464	100	80	254
MIN								---	75	48	33	31
CFSM								---	3.40	1.47	.97	1.25
IN.								---	3.80	1.70	1.12	1.39

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.

LOCATION.--Lat 34°32'27", long 83°37'14", Habersham-White County line, Hydrologic Unit 03130001, on downstream side of highway bridge, 1 mi (1.6 km) downstream from Soquee River, 6 mi (9.7 km) northwest of Cornelia, and at mile 401.4 (645.9 km).
DRAINAGE AREA.--315 mi² (816 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1957 to current year.
REVISED RECORDS.--WSP 2106: 1963(M).
GAGE.--Water-stage recorder. Datum of gage is 1,128.53 ft (343.976 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).
REMARKS.--Records good. Some regulation at low flow from Habersham Mill powerplant.
AVERAGE DISCHARGE.--24 years, 860 ft³/s (24.4 m³/s), 37.08 in/yr (942 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,900 ft³/s (478 m³/s) Mar. 12, 1963, gage height, 20.55 ft (6.264 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 91 ft³/s (2.58 m³/s) Sept. 7, 1957.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,400 ft³/s (125 m³/s) May 27, gage height, 4.92 ft (1.500 m), no peaks above base of 6,200 ft³/s (176 m³/s); minimum daily discharge, 122 ft³/s (3.46 m³/s) Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1050	432	527	209	223	432	776	379	676	301	220	219
2	722	273	456	403	720	596	693	361	942	414	246	245
3	610	471	464	366	560	555	647	229	1150	537	339	223
4	512	420	428	182	444	599	621	380	1670	371	308	509
5	322	426	387	334	335	781	695	348	1390	381	270	469
6	470	410	384	286	335	651	782	323	1040	460	257	200
7	407	377	238	316	329	553	676	431	1010	488	263	1040
8	379	374	438	293	217	414	648	381	934	349	233	709
9	388	209	376	292	392	571	640	356	780	295	175	481
10	412	413	468	305	444	559	624	245	719	328	264	345
11	406	342	429	189	2440	488	581	628	667	296	356	266
12	208	348	398	332	1060	457	392	476	636	262	320	274
13	408	347	350	322	763	495	587	400	567	382	272	172
14	301	344	217	305	633	494	535	364	548	312	279	252
15	321	396	406	286	501	309	473	315	546	302	167	259
16	320	396	360	317	595	507	470	326	553	315	151	353
17	369	472	365	301	640	455	524	215	472	288	255	295
18	397	480	361	182	2150	455	433	428	474	210	248	246
19	507	445	348	335	2270	509	368	452	451	222	245	216
20	478	382	333	286	1420	496	517	460	353	362	223	147
21	387	406	206	348	1020	396	613	436	311	274	246	218
22	356	385	412	314	887	304	505	398	488	283	202	234
23	367	255	418	331	989	529	485	301	403	262	139	230
24	347	705	466	288	766	450	556	244	407	249	216	225
25	325	650	395	182	789	444	372	239	407	245	232	220
26	348	573	319	331	670	403	308	407	315	172	227	182
27	441	537	263	284	650	402	475	2460	264	280	205	122
28	561	681	207	293	625	405	412	1270	265	279	192	198
29	540	564	277	276	---	289	402	788	345	261	184	182
30	560	501	304	341	---	1430	408	622	322	322	125	182
31	542	---	312	239	---	1030	---	528	---	236	170	---
TOTAL	13773	13022	11272	9078	22695	16458	16218	15190	19105	9738	7229	8913
MEAN	444	434	364	293	811	531	541	490	637	314	233	297
MAX	1050	705	527	403	2440	1430	782	2460	1670	537	356	1040
MIN	208	209	206	182	217	289	308	215	264	172	125	122
CFSM	1.41	1.38	1.16	.93	2.58	1.69	1.72	1.56	2.02	1.00	.74	.94
IN.	1.63	1.54	1.33	1.07	2.68	1.94	1.92	1.79	2.26	1.15	.85	1.05

CAL YR 1980 TOTAL 322544 MEAN 881 MAX 7840 MIN 155 CFSM 2.80 IN 38.09
WTR YR 1981 TOTAL 162691 MEAN 446 MAX 2460 MIN 122 CFSM 1.42 IN 19.21

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV							
12...	1500	372	6.9	7.1	19.5	11.0	10.9
JAN							
15...	1730	278	6.8	6.8	5.5	3.0	12.2
MAR							
12...	1130	459	6.9	7.2	17.0	8.5	11.2
MAY							
13...	0930	408	7.1	7.0	23.0	15.0	9.5
JUL							
15...	1200	302	7.5	7.3	39.0	26.0	8.1
SEP							
22...	1100	233	7.3	7.0	25.0	17.0	9.6

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV									
12...	28	5	.6	280	10	.13	.020	.020	<1.0
JAN									
15...	13	3	<.1	<30	5.0	<.02	<.020	.020	<1.0
MAR									
12...	26	8	.8	90	9.0	.17	.020	<.020	<1.0
MAY									
13...	28	15	1.3	8400	10	.24	.080	.070	<1.0
JUL									
15...	28	5	.6	90	9.0	.11	.020	.050	<1.0
SEP									
22...	29	6	.6	230	1.2	.12	.080	.020	<1.0

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
03...	1150	586	18.0	20	32
NOV					
18...	1100	511	11.0	6	8.3
DEC					
16...	1610	354	7.0	5	4.8
FEB					
05...	1315	310	.0	5	4.2
MAR					
17...	1515	446	11.0	5	6.0
APR					
28...	1430	349	19.5	7	6.6
JUN					
12...	1130	792	23.0	38	81
JUL					
21...	1415	188	25.5	6	3.0

02333500 CHESTATEE RIVER NEAR DAHLONEGA, GA.

LOCATION.—Lat 34°31'41", long 83°56'23", Lumpkin County, Hydrologic Unit 03130001, on left bank 250 ft (76 m) upstream from Bearden Bridge on State Highway 52, 2 mi (3.2 km) downstream from Ballplay Creek, 2.5 mi (4.0 km) east of Dahlonega, and 3.5 mi (5.6 km) upstream from Yahoola Creek.
DRAINAGE AREA.—153 mi² (396 km²).
PERIOD OF RECORD.—June 1929 to January 1932, April 1940 to current year. Monthly discharge only for some periods, published in WSP 1304.
GAGE.—Water-stage recorder. Datum of gage is 1,128.6 ft (343.997 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).
REMARKS.—Records good.
AVERAGE DISCHARGE.—43 years (1929-31, 1940-81), 370 ft³/s (10.5 m³/s), 32.84 in/yr (834 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 22,700 ft³/s (643 m³/s) Aug. 23, 1967, gage height, 25.17 ft (7.672 m); minimum daily, 49 ft³/s (1.39 m³/s) Oct. 4, 1931, Oct. 26, 1941.
EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Aug. 12, 1907 reached a stage of about 25 ft (7.6 m), from information by local resident. Flow increased by failure of dam above station.
EXTREMES FOR CURRENT YEAR.—Peak discharge above base of 2,600 ft³/s (73.6 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 27	0900	*4230	120	8.60	2.621

Minimum discharge, 76 ft³/s (2.15 m³/s) Sept. 30, gage height, 0.63 ft (0.192 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	369	157	189	124	124	230	323	167	309	170	111	77
2	234	148	160	124	278	223	277	158	954	188	131	100
3	188	145	158	122	193	210	249	152	903	191	131	92
4	166	152	152	122	160	225	236	151	1220	167	112	261
5	158	148	148	121	154	341	363	148	872	173	107	208
6	151	140	146	121	144	260	324	146	612	199	106	122
7	144	137	144	119	142	238	276	168	534	217	111	294
8	140	136	140	119	142	223	256	155	489	164	129	178
9	136	133	146	119	137	217	247	145	378	150	119	132
10	133	132	182	119	226	215	240	150	325	141	105	113
11	132	130	156	117	1400	205	228	192	291	147	114	105
12	126	128	150	117	484	200	217	156	281	143	128	99
13	123	128	148	117	318	198	210	146	357	142	106	97
14	129	125	140	116	263	193	204	141	311	130	102	95
15	129	181	138	116	230	186	198	153	257	125	102	95
16	128	205	140	116	213	189	191	145	240	130	100	164
17	128	160	138	114	236	186	190	143	226	127	100	108
18	140	170	135	114	1400	200	256	150	216	126	99	99
19	244	156	135	114	1570	192	214	192	209	130	97	108
20	156	146	131	117	870	182	199	165	200	146	94	102
21	140	142	131	146	536	181	230	165	193	124	99	99
22	135	140	128	131	420	189	200	148	182	112	100	94
23	131	144	131	122	376	190	214	141	174	108	98	93
24	130	272	140	116	318	183	227	134	168	104	98	98
25	160	223	146	116	287	177	195	129	166	109	87	86
26	147	184	131	114	266	170	186	131	164	104	83	85
27	137	238	129	114	249	167	179	2090	155	108	81	82
28	239	230	129	114	238	163	172	857	152	100	80	81
29	187	198	131	111	---	160	175	407	150	103	79	78
30	182	189	128	114	---	740	180	297	148	116	78	76
31	177	---	124	128	---	423	---	259	---	106	77	---
TOTAL	5019	4917	4424	3694	11374	7056	6856	7901	10836	4300	3164	3513
MEAN	162	164	143	119	406	228	229	255	361	139	102	117
MAX	369	272	189	146	1570	740	363	2090	1220	217	131	294
MIN	123	125	124	111	124	160	172	129	148	100	77	76
CFSM	1.06	1.07	.94	.78	2.65	1.49	1.50	1.67	2.36	.91	.67	.77
IN.	1.22	1.20	1.08	.90	2.77	1.72	1.67	1.92	2.63	1.05	.77	.85

CAL YR 1980 TOTAL 140202 MEAN 383 MAX 4130 MIN 85 CFSM 2.50 IN 34.09
WTR YR 1981 TOTAL 73044 MEAN 200 MAX 2090 MIN 76 CFSM 1.31 IN 17.76

02334430 CHATTAHOOCHEE RIVER AT BUFORD DAM, NEAR BUFORD, GA.

LOCATION.--Lat 34°09'23", long 84°04'44", Gwinnett-Forsyth County line, Hydrologic Unit 03130001, on right bank 1,200 ft (366 m) downstream from Buford Dam, 2.4 mi (3.9 km) upstream from bridge on State Highway 20, 4 mi (6.4 km) northeast of Buford, and at mile 348.1 (560.0 km).

DRAINAGE AREA.--1,040 mi² (2,690 km²), approximately.

PERIOD OF RECORD.--June to December 1901 (figures of daily discharge for the months of August and December, published in WSP 197, are unreliable and should not be used), October 1941 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WDR GA-79-1: 1972-78 (maximum gage heights only). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 912.04 ft (277.990 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). June 24 to Dec. 21, 1901, Jan. 27, 1942, to Dec. 3, 1944, nonrecording gage, and Dec. 4, 1944, to Dec. 31, 1947, water-stage recorder at site 2.5 mi (4.0 km) downstream, and Jan. 1, 1948, to Sept. 30, 1971, water-stage recorder at site 2.4 mi (3.9 km) downstream, all at different datum.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier beginning January 1956 (See "Lakes and Reservoirs in Apalachicola River basin", station 02334400.)

AVERAGE DISCHARGE.--40 years, 2,160 ft³/s (61.2 m³/s), 28.20 in/yr (716 mm/yr), adjusted for storage since 1956.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft³/s (1,560 m³/s) Jan. 8, 1946, gage height, 32.6 ft (9.94 m), from floodmark, from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of peak flows passing upstream and downstream stations; minimum daily, 262 ft³/s (7.42 m³/s) May 18, 1958.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1921, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,510 ft³/s (269 m³/s) Sept. 29, gage height, 6.13 ft (1.868 m); minimum daily discharge, 490 ft³/s (13.9 m³/s) Apr. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2600	616	1610	585	910	926	495	1060	524	1180	1500	1170
2	4250	960	1220	1280	1130	1170	494	501	1090	1190	1500	1180
3	2780	1490	1250	584	1390	1160	493	835	1070	1190	1510	1170
4	611	1250	1250	916	1170	1160	501	1050	1100	1440	1520	1170
5	947	1260	955	1440	1160	1160	826	672	1090	1430	2770	1170
6	1980	1260	620	1170	1170	1160	495	1060	529	1400	2160	1180
7	1980	1250	974	1070	593	636	1050	1050	863	1430	1510	1170
8	1970	623	1220	1030	914	937	490	1050	789	2200	1510	2350
9	2360	974	1190	1050	1170	1140	495	585	1080	1420	1500	2350
10	1970	1270	1180	580	610	1160	1050	843	1090	1420	3160	2350
11	606	1260	1210	848	1290	1180	494	1060	505	1440	1940	2330
12	955	1260	1200	1230	1030	1170	837	1070	512	1490	3390	871
13	2320	1280	826	849	1170	1150	1040	1060	859	1500	2880	876
14	2210	1250	960	986	597	586	1050	1080	1230	1490	4360	2580
15	4480	629	1170	1040	933	917	1050	1070	1350	2040	2990	2590
16	2220	976	1160	1110	1150	1150	1050	514	1150	1410	1830	2590
17	2200	1280	1160	585	1150	1150	1040	859	1160	1490	2440	2580
18	609	1250	1180	882	1170	1150	491	1080	1150	1500	2100	2590
19	957	1240	1150	1110	611	1130	829	1080	1150	1490	2110	873
20	2780	614	607	1340	603	1160	1060	1080	1180	1850	4010	877
21	2660	948	949	1090	602	509	1030	1080	1180	1490	2110	3590
22	2220	632	1280	1030	941	910	1050	1080	1170	1490	1780	3540
23	2210	977	1300	987	1150	1150	1050	520	1180	1510	1800	3540
24	2210	1420	915	595	1150	1150	1050	872	1190	1500	3380	3160
25	618	1400	910	893	1150	1160	492	1090	1180	1500	3820	3160
26	970	1450	1270	1150	1160	1140	835	1090	1170	1510	1150	1180
27	1980	598	567	1140	1150	1150	1060	537	1190	1500	1160	1180
28	1970	1390	924	1130	596	591	1060	603	1180	1500	1170	4280
29	1360	615	1280	1170	---	917	1050	1090	1190	1470	1170	3330
30	1960	970	1290	1170	---	611	1070	522	1170	1490	1170	3330
31	1400	---	1290	596	---	1110	---	870	---	1500	1170	---
TOTAL	60263	32306	33875	30536	27720	31910	25076	27961	31271	46500	66290	64117
MEAN	1944	1070	1093	985	990	1030	836	901	1042	1500	2138	2137
MAX	4480	1490	1610	1440	1390	1180	1070	1090	1350	2200	4360	4280
MIN	606	598	567	565	593	586	490	501	505	1180	1150	871
MEAN†	1111	1020	824	692	2479	1360	1194	1311	1259	471	455	483
CFSM†	1.07	.98	.77	.67	2.38	1.31	1.15	1.26	1.21	.45	.44	.46
IN†	1.23	1.09	.89	.77	2.48	1.51	1.28	1.45	1.35	.52	.50	.53

CAL YR 1980 TOTAL 1009639 MEAN 2759 MAX 8380 MIN 567 MEAN† 2400 CFSM† 2.31 IN† 31.33
WTR YR 1981 TOTAL 477809 MEAN 1309 MAX 4480 MIN 490 MEAN† 1038 CFSM† 1.00 IN† 13.55

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA.

LOCATION.—Lat 33°59'50", long 84°12'07", Gwinnett-Fulton County line, Hydrologic Unit 03130001, on downstream side of right bank pier of bridge on State Highway 141, 1.5 mi (2.4 km) upstream from John Creek, 4.5 mi (7.2 km) north of Norcross, 6.5 mi (10.5 km) downstream from Suwanee Creek, 18 mi (29 km) downstream from Buford Dam, and at mile 330.8 (532.3 km).

DRAINAGE AREA.—1,170 mi^2 (3,030 km^2), approximately.

PERIOD OF RECORD.—October 1902 to September 1946, October 1956 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site 1910-33, and since 1945 are contained in reports of National Weather Service.

GAGE.—Water-stage recorder. Datum of gage is 878.14 ft (267.657 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 13, 1955, nonrecording gage at site 500 ft (152 m) downstream at same datum. July 14, 1955, to Mar. 11, 1957, nonrecording gage at present site and datum.

REMARKS.—Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversion and return flow above station regulated by Gwinnett County.

AVERAGE DISCHARGE.—69 years, 2,323 ft^3/s (65.8 m^3/s), 26.96 in/yr (685 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 55,000 ft^3/s (1,560 m^3/s) Jan. 8, 1946, gage height, 27.7 ft (8.443 m), from rating curve extended above 36,000 ft^3/s (1,020 m^3/s) on basis of computation of peak flow over Morgan Falls Dam; minimum observed, 132 ft^3/s (3.74 m^3/s) Aug. 25, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1896, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 8,500 ft^3/s (241 m^3/s) Sept. 28, gage height, 9.92 ft (3.024 m); minimum daily, 602 ft^3/s (17.0 m^3/s) June 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2960	827	1400	1380	720	743	1340	1220	962	1130	1470	1150
2	4000	785	1380	767	1100	1040	790	1200	821	1150	1470	1250
3	2740	1240	1360	1360	1290	1170	723	678	1110	1160	1470	1170
4	2000	1450	1360	747	1490	1210	698	1140	1110	1300	1470	1190
5	748	1370	1340	1830	1500	1260	800	1040	1110	1380	1830	1200
6	1830	1370	1050	816	956	1220	1070	916	986	1410	3140	1180
7	2040	1370	763	1270	1200	1180	725	1140	693	1400	1680	1170
8	2050	1340	1050	1160	724	710	1230	1150	1020	1580	1420	2040
9	2330	796	1270	1140	982	968	709	974	908	1940	1580	2430
10	2140	1060	1300	1120	1350	1160	695	669	1090	1400	2820	2430
11	1220	1360	1280	728	2140	1180	1210	1270	974	1450	2350	2420
12	732	1360	1290	1300	2110	1170	694	1180	602	1450	2960	1370
13	1910	1370	1290	1170	917	1170	971	1140	640	1450	3290	921
14	2370	1370	758	890	1300	1190	1180	1140	1480	1450	3500	2040
15	3640	1370	1050	959	778	712	1200	1170	1220	1600	3940	2690
16	3140	829	1270	1160	1060	1000	1190	987	1160	1880	2050	2700
17	2270	1090	1260	908	1280	1210	1200	660	1130	1470	2220	2700
18	1360	1390	1260	682	1530	1240	1200	1110	1120	1530	2230	2680
19	796	1390	1270	1150	1710	1720	688	1160	1120	1460	2190	1560
20	2480	1360	1250	1480	951	1240	973	1250	1140	1750	3630	833
21	2780	782	749	1070	817	751	1240	1170	1150	1560	2610	2450
22	2340	1040	1060	1240	779	716	1210	1150	1140	1450	2080	3640
23	2280	775	1400	1050	1080	991	1220	965	1140	1470	1800	3630
24	2310	1100	1370	733	1260	1210	1240	641	1140	1450	2490	3380
25	1390	1540	1030	708	1250	1220	1210	1080	1140	1440	3830	3260
26	782	1590	1070	962	1250	1230	691	1100	1150	1450	2130	2280
27	1800	1580	1340	1220	1250	1210	973	1190	1090	1470	1250	1140
28	2120	848	767	1240	1230	1230	1190	750	1130	1450	1090	3080
29	1320	1530	1040	1240	---	714	1200	854	1130	1490	1310	3270
30	2280	797	1410	1230	---	1410	1230	952	1130	1410	1160	3430
31	2010	---	1390	1210	---	999	---	640	---	1460	1160	---
TOTAL	64168	36079	36877	33920	34004	34174	30690	31686	31736	45440	67620	64684
MEAN	2070	1203	1190	1094	1214	1102	1023	1022	1058	1466	2181	2156
MAX	4000	1590	1410	1830	2140	1720	1340	1270	1480	1940	3940	3640
MIN	732	775	749	682	720	710	688	640	602	1130	1090	833

CAL YR 1980 TOTAL 1099194 MEAN 3003 MAX 8560 MIN 732 MEAN† 2644 CFSM† 2.26 IN† 30.68
WTR YR 1981 TOTAL 511078 MEAN 1400 MAX 4000 MIN 602 MEAN† 1129 CFSM† 0.96 IN† 13.10

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02335450 CHATTAHOOCHEE RIVER ABOVE ROSWELL, GA.

LOCATION.—Lat 33°59'09", long 84°18'58", Fulton County, Hydrologic Unit 03130001, on right bank 3.3 mi (5.3 km) upstream from Big Creek and bridge on U.S. Highway 19, 3.6 mi (5.8 km) southeast of Roswell, and at mile 320.6 (515.8 km).

DRAINAGE AREA.—1,220 mi^2 (3,160 km^2), approximately.

PERIOD OF RECORD.—October 1941 to May 1960 (published as "near Roswell") July 1976 to current year.

GAGE.—Water-stage recorder. Datum of gage is 858.01 ft (261.521 m) National Geodetic Vertical Datum of 1929. Prior to July 7, 1976, at site 1.8 mi (2.9 km) downstream at datum 8.51 ft (2.594 m) lower.

REMARKS.—Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett and DeKalb Counties; return flows above station by Gwinnett County.

AVERAGE DISCHARGE.—23 years, 2,135 ft^3/s (60.5 m^3/s), 23.76 in/yr (604 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 56,000 ft^3/s (1.586 m^3/s) Jan. 8, 1946 (gage height, 23.4 ft site and datum then in use, from floodmark), from rating curve extended above 30,000 ft^3/s (850 m^3/s) on basis of computation of peak flow over Morgan Falls Dam 6 miles downstream; minimum daily, 315 ft^3/s (8.92 m^3/s) Aug. 11, 1957.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 8,020 ft^3/s (227 m^3/s) Sept. 29, gage height, 7.57 ft (2.307 m); minimum daily discharge, 515 ft^3/s (14.6 m^3/s) June 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3140	981	1270	1420	675	702	1480	1180	978	1170	1520	1110
2	3620	699	1610	677	1200	1000	806	1160	637	1250	1560	1140
3	3290	1030	1420	1400	1330	1200	720	569	1140	1270	1530	1190
4	2690	1650	1440	674	1580	1250	638	910	1120	1300	1540	1260
5	654	1390	1380	1720	1480	1300	922	1090	1090	1510	1390	1190
6	1180	1390	1090	891	1060	1250	1150	739	1160	1510	3400	1140
7	2010	1370	705	1310	1260	1240	694	1110	657	1520	1930	1160
8	1970	1400	1030	1160	664	653	1220	1140	974	1490	1290	1550
9	2190	690	1340	1160	955	950	675	1080	832	2210	1680	2420
10	2200	1060	1420	1130	1740	1160	623	633	1110	1390	2420	2390
11	1800	1350	1390	674	2820	1210	1210	1200	1080	1410	2710	2400
12	629	1370	1360	1270	2420	1150	617	1200	515	1530	2610	1920
13	1650	1400	1400	1230	986	1210	924	1180	555	1440	3340	834
14	2440	1370	693	921	1360	1200	1160	1110	1440	1450	3170	1300
15	2830	1490	1080	905	758	672	1170	1190	1020	1460	4010	2680
16	4000	761	1360	1220	1030	1010	1160	1110	1180	2040	2290	2730
17	2290	1060	1370	1000	1330	1200	1170	618	1130	1430	2000	2660
18	1610	1420	1370	634	1760	1300	1190	927	1130	1520	2340	2680
19	819	1410	1340	1140	2010	1720	596	1230	1120	1430	2160	2170
20	2150	1450	1360	1440	1020	1250	934	1340	1140	1570	3240	834
21	2830	716	708	1250	862	842	1220	1250	1160	1690	3060	1440
22	2480	977	953	1310	784	656	1200	1160	1160	1380	2230	3580
23	2340	700	1450	1090	1080	1010	1250	1140	1130	1460	1810	3610
24	2350	1130	1450	806	1290	1230	1240	570	1130	1410	2030	3370
25	1670	1600	1000	641	1250	1220	1190	949	1130	1440	3710	3180
26	682	1590	997	952	1290	1270	594	1140	1170	1500	2820	2790
27	1560	1720	1410	1260	1270	1190	908	1560	1110	1550	1150	1030
28	2270	772	704	1310	1270	1210	1150	775	1140	1460	1120	2390
29	1620	1620	1040	1220	---	663	1210	706	1120	1560	1130	3260
30	2140	739	1400	1260	---	1740	1200	1120	1160	1410	1110	3370
31	2210	---	1420	1250	---	1210	---	577	---	1550	1110	---
TOTAL	65314	36305	37960	34325	36534	34868	30221	31663	31418	46310	67410	62778
MEAN	2107	1210	1225	1107	1305	1125	1007	1021	1047	1494	2175	2093
MAX	4000	1720	1610	1720	2820	1740	1480	1560	1440	2210	4010	3610
MIN	629	690	693	634	664	653	594	569	515	1170	1110	834

CAL YR 1980 TOTAL 1090336 MEAN 2979 MAX 8430 MIN 581 MEAN† 2620 CFSM† 2.15 IN† 29.15
WTR YR 1981 TOTAL 515106 MEAN 1411 MAX 4010 MIN 515 MEAN† 1140 CFSM† 0.93 IN† 12.68

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02335700 BIG CREEK NEAR ALPHARETTA, GA.

LOCATION.--Lat 34°03'02", long 84°16'10", Fulton County, Hydrologic Unit 03130001, on left bank at downstream side of county highway bridge, 2.6 mi (4.2 km) southeast of Alpharetta, and 9.4 mi (15.1 km) upstream from mouth.

DRAINAGE AREA.--72 mi^2 (186 km^2), approximately.

PERIOD OF RECORD.--May 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 960.80 ft (292.852 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Soil Conservation Service).

REMARKS.--Records good.

AVERAGE DISCHARGE.--21 years, 116 ft^3/s (3.29 m^3/s), 21.88 in/yr (556 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,800 ft^3/s (164 m^3/s) Feb. 21, 1961, gage height, 12.54 ft (3.82 m); minimum daily, 6.4 ft^3/s (0.18 m^3/s) Sept. 29, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft^3/s (22.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 19	1200	*823	23.3	7.87	2.399

Minimum daily discharge, 6.4 ft^3/s (0.18 m^3/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	52	49	40	39	65	190	38	135	18	19	13
2	77	48	52	39	123	69	131	36	80	34	19	16
3	54	46	47	39	80	61	96	35	83	28	23	17
4	45	47	45	39	57	59	82	34	61	24	19	28
5	42	46	45	39	51	127	161	33	109	22	15	24
6	39	44	44	39	49	79	133	33	83	30	14	17
7	38	44	43	49	48	68	95	35	75	26	37	15
8	37	44	43	44	47	63	81	35	59	24	33	15
9	37	44	43	42	44	59	76	31	51	22	25	14
10	37	44	51	41	154	58	71	34	45	24	19	13
11	37	43	49	40	616	58	65	60	42	25	44	12
12	36	43	44	40	544	56	61	42	43	19	39	12
13	35	43	43	40	154	55	57	36	42	17	30	11
14	35	43	43	39	103	55	55	33	38	16	22	11
15	35	51	44	38	84	53	52	46	34	15	19	13
16	35	62	45	38	74	55	48	38	31	16	18	36
17	35	48	44	37	85	53	47	35	29	14	23	18
18	37	52	42	36	454	58	50	34	27	44	31	11
19	92	48	41	37	747	95	52	58	26	25	20	9.7
20	58	45	40	40	540	63	54	151	25	19	18	9.0
21	43	44	39	53	140	58	54	69	25	17	18	8.2
22	40	44	38	46	107	60	50	48	23	16	16	7.6
23	39	44	40	42	103	59	52	41	22	14	15	7.4
24	39	68	44	40	89	56	61	37	21	11	14	7.6
25	49	65	48	38	78	54	48	36	20	11	13	6.7
26	46	51	41	38	73	53	45	42	22	10	13	7.4
27	42	70	40	39	69	53	42	314	18	22	12	7.8
28	95	76	41	40	66	51	40	344	17	15	12	6.5
29	69	59	42	37	---	50	40	93	16	14	11	6.4
30	71	53	41	36	---	314	42	59	16	13	13	6.7
31	65	---	40	37	---	324	---	60	---	17	13	---
TOTAL	1605	1511	1351	1242	4818	2441	2131	2020	1318	622	637	387.0
MEAN	51.8	50.4	43.6	40.1	172	78.7	71.0	65.2	43.9	20.1	20.5	12.9
MAX	166	76	52	53	747	324	190	344	135	44	44	36
MIN	35	43	38	36	39	50	40	31	16	10	11	6.4
CFSM	.72	.70	.61	.56	2.39	1.09	.99	.91	.61	.28	.29	.18
IN.	.83	.78	.70	.64	2.49	1.26	1.10	1.04	.68	.32	.33	.20

CAL YR 1980 TOTAL 49350.0 MEAN 135 MAX 2010 MIN 18 CFSM 1.88 IN 25.50
WTR YR 1981 TOTAL 20083.0 MEAN 55.0 MAX 747 MIN 6.4 CFSM .76 IN 10.38

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.

LOCATION.—Lat 33°51'33", long 84°27'16", Fulton-Cobb County line, Hydrologic Unit 03130001, on left bank 20 ft (6 m) upstream from Paces Ferry Bridge, at Atlanta, 1 mi (1.6 km) downstream from Rottenwood Creek, 2.5 mi (4.0 km) upstream from Peachtree Creek, and at mile 303.0 (487.5 km).

DRAINAGE AREA.—1,450 mi^2 (3,760 km^2), approximately.

PERIOD OF RECORD.—August 1928 to December 1931, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1951, published as "near Vinings".

REVISED RECORDS.—WSP 972: 1932.

GAGE.—Water-stage recorder. Datum of gage is 750.10 ft (228.630 m) National Geodetic Vertical Datum of 1929. Aug. 3, 1928, to Dec. 31, 1931, water-stage recorder, and Nov. 15, 1936, to Mar. 8, 1937, nonrecording gage at same site and datum. Since June 1967, auxiliary water-stage recorder at bridge on U.S. Highway 41, 0.8 mi (1.3 km) upstream.

REMARKS.—Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant 9.5 mi (15.3 km) above station. Records of chemical analyses for the water years 1974-79 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.—48 years, 2,613 ft^3/s (74.0 m^3/s), 24.47 in/yr (622 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 59,000 ft^3/s (1,670 m^3/s) Jan. 9, 1946, gage height, 28.0 ft (8.53 m); minimum daily, 296 ft^3/s (8.38 m^3/s) Sept. 2, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1896, 29.0 ft (8.84 m) in December 1919, from floodmarks at site 2.6 mi (4.2 km) downstream and stage relation between the two sites.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 8,460 ft^3/s (240 m^3/s) Feb. 10, maximum gage height, 9.53 ft (2.905 m) Feb. 11, backwater from Peachtree Creek; minimum daily discharge, 1,080 ft^3/s (30.6 m^3/s) June 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3990	1450	1290	1330	1190	1200	2330	1340	1540	1140	1550	1300
2	2950	1270	1820	1140	1690	1340	1430	1340	1650	1390	1570	1210
3	4200	1250	1560	1250	1800	1520	1210	1160	1430	1280	1570	1260
4	2090	1240	1520	1130	1720	1520	1200	1160	1220	1220	1480	1610
5	1230	1600	1470	1320	1540	1850	1600	1160	1340	1510	1480	1260
6	1640	1600	1300	1460	1340	1520	1250	1160	1300	1740	3200	1260
7	1940	1520	1170	1480	1290	1430	1200	1170	1250	1580	2220	1340
8	2100	1500	1190	1320	1130	1200	1160	1170	1130	1400	2320	1500
9	2190	1180	1190	1300	1150	1200	1140	1160	1110	2250	1630	2260
10	2530	1210	1430	1250	2820	1340	1150	1360	1110	1630	1790	2430
11	1550	1400	1540	1130	5850	1470	1160	1400	1100	1550	3340	2350
12	1220	1520	1560	1140	3310	1430	1150	1250	1160	1640	2430	1640
13	1580	1550	1300	1290	1810	1380	1150	1180	1110	1630	3400	1180
14	2360	1540	1190	1170	1600	1430	1160	1220	1090	1480	2780	1440
15	2460	1710	1200	1130	1230	1180	1160	1480	1160	1490	4260	2680
16	4340	1280	1300	1330	1340	1180	1310	1410	1100	1990	2770	2580
17	2400	1260	1420	1310	1810	1370	1340	1250	1090	1590	2100	2620
18	1760	1610	1470	1120	3500	1570	1320	1200	1090	1610	2520	2480
19	1360	1610	1400	1160	3280	1760	1160	1410	1100	1480	2190	2080
20	2090	1620	1380	1340	1840	1480	1250	1850	1140	1490	2290	1220
21	2970	1270	1120	1600	1370	1360	1380	1650	1140	1780	4040	1380
22	2900	1200	1150	1380	1250	1160	1420	1480	1350	1550	2190	3290
23	2390	1200	1490	1240	1560	1180	1490	1300	1110	1410	1910	3440
24	2390	1410	1480	1230	1610	1320	1640	1170	1290	1450	1850	3420
25	1880	1450	1210	1160	1520	1440	1340	1180	1370	1440	3100	3050
26	1230	1740	1270	1190	1520	1410	1170	1340	1300	1480	3350	2580
27	1560	1850	1370	1220	1520	1440	1160	3780	1100	1540	1260	1470
28	2450	1350	1150	1540	1380	1320	1160	1510	1180	1450	1120	1530
29	2700	1470	1140	1360	---	1130	1390	1300	1080	1450	1130	3730
30	2030	1290	1480	1390	---	3440	1470	1300	1170	1560	1210	3230
31	2360	---	1520	1260	---	2230	---	1250	---	1850	1230	---
TOTAL	70840	43150	42080	39670	52970	45800	39450	43090	36310	48050	69280	62820
MEAN	2285	1438	1357	1280	1692	1477	1315	1390	1210	1550	2235	2094
MAX	4340	1850	1820	1600	5850	3440	2330	3780	1650	2250	4260	3730
MIN	1220	1180	1120	1120	1130	1130	1140	1160	1080	1140	1120	1180

CAL YR 1980 TOTAL 1240600 MEAN 3390 MAX 13000 MIN 1120 MEAN† 3031 CFSM† 2.09 IN† 28.37
WTR YR 1981 TOTAL 593510 MEAN 1626 MAX 5850 MIN 1080 MEAN† 1349 CFSM† 0.93 IN† 12.63

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02336300 PEACHTREE CREEK AT ATLANTA, GA.

LOCATION.--Lat 33°49'10", long 84°24'28", Fulton County, Hydrologic Unit 03130001, on downstream side of bridge on Northside Drive at Atlanta, 0.4 mi (0.6 km) downstream from Tanyard Branch, and 4 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--86.8 mi^2 (225 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 763.96 ft (232.855 m) National Geodetic Vertical Datum of 1929, city of Atlanta bench mark. Prior to May 27, 1963, water-stage recorder at site 1,000 ft (305 m) downstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--23 years, 135 ft^3/s (3.82 m^3/s), 21.12 in/yr (536 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,660 ft^3/s (245 m^3/s) Mar. 16, 1976, gage height, 20.30 ft (6.187 m); minimum daily discharge, 6.6 ft^3/s (0.187 m^3/s) Sept. 30, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft^3/s (70.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	0045	*4300	122	13.88	4.231	Mar. 30	0845	3270	92.6	12.13	3.697

Minimum daily discharge, 6.6 ft^3/s (0.187 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	34	31	31	82	49	418	32	137	12	52	47
2	54	31	31	31	455	59	97	28	38	108	38	16
3	38	30	30	32	56	45	63	27	44	58	16	103
4	33	105	30	31	42	176	52	27	27	18	14	524
5	32	37	31	31	38	175	384	26	40	164	22	143
6	30	32	30	32	36	52	78	27	57	108	45	29
7	29	31	29	50	35	46	51	28	86	68	372	20
8	28	30	30	34	35	45	46	26	56	16	70	17
9	27	32	39	31	33	44	45	24	27	12	34	16
10	27	32	247	30	1300	43	43	303	24	12	203	14
11	27	32	57	30	1530	41	39	443	22	12	80	14
12	25	30	41	30	171	40	38	55	131	132	25	13
13	24	28	41	30	130	40	37	42	67	20	18	13
14	25	28	40	29	101	39	37	40	25	15	16	13
15	25	300	41	29	70	39	34	72	22	12	25	58
16	26	71	47	29	58	59	35	31	21	10	18	154
17	26	45	41	29	200	40	36	29	20	9.9	64	19
18	99	35	36	29	946	164	34	32	18	9.5	16	11
19	263	32	31	29	280	65	33	187	17	9.2	13	9.6
20	44	31	33	44	132	45	83	37	16	9.6	13	9.4
21	35	30	32	67	90	41	39	29	15	9.0	44	9.2
22	32	30	32	33	70	59	32	26	15	8.4	17	8.9
23	31	30	32	30	60	68	32	24	17	8.0	13	8.7
24	32	117	33	30	55	43	40	23	25	7.8	14	8.4
25	111	39	33	29	50	39	29	23	65	7.6	12	8.8
26	38	33	31	28	48	37	28	134	16	7.4	19	7.8
27	33	120	31	35	46	36	28	527	15	50	12	7.3
28	320	45	32	43	46	35	27	58	13	28	10	7.0
29	52	34	32	30	---	34	153	34	14	20	9.9	7.0
30	157	32	32	28	---	1200	78	29	13	16	20	6.6
31	51	---	32	28	---	163	---	65	---	86	17	---
TOTAL	1880	1536	1288	1022	6195	3061	2169	2488	1103	1063.4	1341.9	1322.7
MEAN	60.6	51.2	41.5	33.0	221	98.7	72.3	80.3	36.8	34.3	43.3	44.1
MAX	320	300	247	67	1530	1200	418	527	137	164	372	524
MIN	24	28	29	28	33	34	27	23	13	7.4	9.9	6.6
CFSM	.70	.59	.48	.38	2.55	1.14	.83	.93	.42	.40	.50	.51
IN.	.81	.66	.55	.44	2.65	1.31	.93	1.07	.47	.46	.58	.57

CAL YR 1980 TOTAL 54713.0 MEAN 149 MAX 3510 MIN 16 CFSM 1.72 IN 23.45
WTR YR 1981 TOTAL 24470.0 MEAN 67.0 MAX 1530 MIN 6.6 CFSM .77 IN 10.49

02336300 PEACHTREE CREEK AT ATLANTA, GA.—Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.96	3.30	3.23	3.24	3.60	3.47	5.15	3.27	3.97	3.01	3.49	3.37
2	3.60	3.26	3.24	3.23	5.20	3.56	3.82	3.22	3.34	3.80	3.39	3.10
3	3.44	3.25	3.24	3.25	3.53	3.43	3.59	3.19	3.40	3.49	3.12	3.41
4	3.36	3.83	3.23	3.24	3.39	4.03	3.50	3.20	3.19	3.14	3.08	5.46
5	3.34	3.33	3.24	3.23	3.34	4.17	4.98	3.18	3.30	3.83	3.14	4.00
6	3.31	3.27	3.23	3.25	3.32	3.50	3.70	3.20	3.46	3.84	3.31	3.32
7	3.30	3.25	3.22	3.46	3.30	3.44	3.49	3.22	3.74	3.59	4.89	3.19
8	3.28	3.24	3.24	3.27	3.31	3.43	3.44	3.18	3.48	3.11	3.66	3.14
9	3.27	3.27	3.30	3.24	3.28	3.42	3.43	3.15	3.20	3.02	3.37	3.12
10	3.25	3.27	4.56	3.24	6.92	3.40	3.40	4.16	3.15	3.02	3.98	3.08
11	3.26	3.27	3.51	3.33	7.95	3.38	3.36	5.37	3.12	3.02	3.69	3.07
12	3.23	3.24	3.37	3.36	4.22	3.37	3.35	3.53	3.67	3.95	3.26	3.06
13	3.21	3.22	3.36	3.36	4.01	3.37	3.34	3.40	3.54	3.18	3.16	3.05
14	3.23	3.22	3.35	3.33	3.85	3.36	3.33	3.35	3.17	3.10	3.13	3.05
15	3.23	4.57	3.37	3.24	3.65	3.35	3.30	3.63	3.12	3.02	3.24	3.44
16	3.23	3.66	3.44	3.23	3.55	3.56	3.30	3.26	3.10	2.98	3.15	4.12
17	3.23	3.43	3.37	3.22	4.40	3.37	3.33	3.23	3.08	2.97	3.58	3.23
18	3.60	3.31	3.31	3.22	6.72	4.10	3.29	3.25	3.05	2.96	3.11	3.09
19	4.52	3.27	3.25	3.22	4.73	3.61	3.28	4.28	3.03	2.95	3.06	3.04
20	3.41	3.26	3.27	3.37	4.02	3.43	3.62	3.33	3.01	2.96	3.05	3.04
21	3.31	3.24	3.24	3.59	3.78	3.38	3.36	3.22	2.98	2.94	3.44	3.03
22	3.27	3.24	3.25	3.27	3.65	3.55	3.27	3.18	2.99	2.93	3.14	3.02
23	3.26	3.25	3.25	3.23	3.57	3.63	3.27	3.15	3.03	2.91	3.05	3.02
24	3.27	3.91	3.26	3.23	3.53	3.41	3.37	3.13	3.09	2.91	3.06	3.01
25	3.87	3.36	3.27	3.22	3.48	3.36	3.23	3.13	3.49	2.90	3.03	3.02
26	3.34	3.28	3.24	3.21	3.46	3.35	3.21	3.83	3.08	2.90	3.16	2.99
27	3.28	3.94	3.24	3.28	3.44	3.33	3.22	5.45	3.04	3.46	3.01	2.97
28	4.75	3.42	3.25	3.39	3.43	3.31	3.20	3.54	3.03	3.19	2.98	2.96
29	3.49	3.23	3.25	3.23	---	3.30	3.91	3.30	3.04	3.07	2.97	2.96
30	4.15	3.24	3.25	3.22	---	7.10	3.65	3.23	3.04	3.00	3.17	2.95
31	3.48	---	3.25	3.21	---	4.18	---	3.46	---	3.65	3.13	---
MEAN	3.48	3.39	3.33	3.28	4.09	3.63	3.52	3.49	3.23	3.19	3.29	3.24
MAX	4.75	4.57	4.56	3.59	7.95	7.10	5.15	5.45	3.97	3.95	4.89	5.46
MIN	3.21	3.22	3.22	3.21	3.28	3.30	3.20	3.13	2.98	2.90	2.97	2.95

WTR YR 1981 MEAN 3.43 MAX 7.95 MIN 2.90

02336300 PEACHTREE CREEK AT ATLANTA, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—November 1969 to May 1972, July 1975 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
07...	1400	29	7.1	7.2	21.5	18.5	8.0
NOV							
06...	1000	31	7.2	7.3	11.5	10.5	9.4
DEC							
04...	1230	30	--	7.3	14.0	7.5	11.2
JAN							
07...	1515	61	6.9	7.3	8.0	5.5	10.2
FEB							
04...	1715	41	6.7	7.1	6.5	5.0	11.2
MAR							
04...	1435	44	--	7.3	14.5	11.0	10.7
APR							
07...	0715	52	7.3	7.2	10.0	13.0	8.5
MAY							
06...	0700	26	7.1	7.4	21.0	19.0	6.6
JUN							
04...	0715	26	7.1	7.3	26.0	23.5	6.1
JUL							
07...	0830	72	7.0	7.1	28.0	24.0	6.0
AUG							
03...	0900	18	7.1	7.0	27.0	22.5	6.6
SEP							
01...	1615	48	7.1	6.8	26.5	24.5	4.7

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
07...	148	9	.7	4300	48	.47	.150	.050	2.0
NOV									
06...	121	7	1.8	9300	42	.19	.080	.040	3.0
DEC									
04...	143	6	1.4	4100	44	.52	.220	.040	2.0
JAN									
07...	113	22	8.0	43000	32	.67	.190	.120	6.0
FEB									
04...	116	11	1.2	230	33	.58	.180	.050	1.3
MAR									
04...	138	9	1.0	9300	42	.42	.030	.030	1.5
APR									
07...	120	17	1.2	2300	36	.43	.070	.040	2.1
MAY									
06...	152	8	.9	7500	51	.40	.100	.080	3.0
JUN									
04...	131	18	.8	15000	41	.33	.290	.080	3.0
JUL									
07...	78	64	3.0	2300	21	.34	.060	.170	8.7
AUG									
03...	123	11	1.3	4300	33	.18	.150	.060	3.5
SEP									
01...	115	80	4.5	230000	25	.37	.990	.340	13

02336490 CHATTAHOOCHEE RIVER AT STATE HIGHWAY 280, NEAR ATLANTA, GA.

LOCATION.--Lat 33°49'01", long 84°28'48", Fulton-Cobb County line, Hydrologic Unit 03130002, at bridge on State Highway 280, 0.6 mi (1.0 km) upstream from Southern Railway bridge, 1.7 mi (2.7 km) downstream from Peachtree Creek, and at mile 298.8 (480.8 km).

DRAINAGE AREA.--1,600 mi^2 (4,140 km^2), approximately.

PERIOD OF RECORD.--March to September 1981.

GAGE.--Water-stage recorder. Datum of gage is 736.35 ft (224.439 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,650 ft^3/s (273 m^3/s) Mar. 30, 1981, gage height, 14.21 ft (4.331 m); minimum daily discharge, 1,110 ft^3/s (31.4 m^3/s) June 18, Aug. 28, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD: Flood of April 13, 1979, reached a stage of 30.71 ft (9.360 m) from floodmarks, discharge, 32,000 ft^3/s (906 m^3/s).

EXTREMES FOR MARCH 3, 1981, to SEPTEMBER 30, 1981.--Maximum discharge, 9,650 ft^3/s (273 m^3/s) Mar. 30, gage height, 14.21 ft (4.331 m); minimum daily discharge, 1,110 ft^3/s (31.4 m^3/s) June 18, Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						---	3180	1390	1720	1220	1670	1370
2						---	1820	1380	1720	1620	1740	1270
3						1520	1360	1170	1710	1470	1690	1270
4						1770	1330	1170	1310	1350	1580	2330
5						2340	2400	1160	1370	1790	1530	1640
6						1650	1460	1150	1400	2120	3240	1290
7						1520	1320	1210	1370	1980	3340	1410
8						1230	1270	1190	1310	1550	1890	1450
9						1220	1270	1150	1200	2340	1750	2310
10						1340	1230	1420	1180	1640	2220	2470
11						1470	1250	2330	1190	1550	3930	2420
12						1480	1230	1240	1330	1810	2480	1850
13						1430	1220	1200	1490	1640	3650	1170
14						1420	1230	1170	1130	1440	2910	1330
15						1170	1200	1460	1290	1470	4630	2710
16						1240	1310	1310	1130	1950	3050	2930
17						1390	1400	1170	1120	1690	2170	2740
18						1790	1390	1190	1110	1610	2660	2560
19						1910	1190	1630	1120	1450	2300	2340
20						1570	1350	1770	1160	1440	2310	1240
21						1470	1290	1580	1150	1770	4500	1320
22						1270	1510	1390	1340	1580	2270	3330
23						1300	1500	1210	1170	1340	1950	3610
24						1320	1810	1140	1240	1420	1910	3520
25						1500	1440	1160	1370	1420	3220	3160
26						1450	1190	1470	1340	1480	3650	2680
27						1480	1200	5000	1150	1860	1420	1450
28						1410	1180	1580	1220	1590	1110	1450
29						1170	1440	1330	1130	1470	1130	3680
30						5900	1630	1340	1170	1540	1210	3380
31						2670	---	1360	---	2060	1240	---
TOTAL						---	43600	45420	38640	50660	74350	65680
MEAN						---	1453	1465	1288	1634	2398	2189
MAX						---	3180	5000	1720	2340	4630	3680
MIN						---	1180	1140	1110	1220	1110	1170

02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.

LOCATION.—Lat 33°48'32", long 84°29'43", Cobb-Fulton County line, Hydrologic Unit 03130002, at bridge on Interstate Highway 285, 0.3 mi (0.5 km) upstream from Proctor Creek, 0.5 mi (0.8 km) downstream from Southern Railway bridge, at Atlanta city limits, and at mile 297.7 (479.0 km).

DRAINAGE AREA.—1,600 mi^2 (4,140 km^2).

PERIOD OF RECORD.—July 1975 to current year.

REMARKS.—Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT							
09...	0830	1320	7.2	6.8	15.0	15.5	10.0
NOV							
05...	1545	2030	7.2	7.3	19.0	14.5	9.7
DEC							
04...	1130	1160	7.0	7.0	11.5	10.5	10.4
JAN							
06...	1700	1320	6.8	7.2	8.0	10.5	10.2
FEB							
03...	1800	2240	6.5	7.0	.0	7.0	12.0
MAR							
05...	1500	1670	7.2	7.3	16.0	13.0	10.2
APR							
06...	1845	1440	--	7.1	16.5	21.5	8.4
MAY							
05...	1715	1180	6.8	7.3	30.0	25.0	8.5
JUN							
03...	1830	1410	6.9	7.2	31.5	27.5	7.4
JUL							
07...	0915	1900	7.0	7.1	28.5	23.0	7.9
AUG							
03...	0945	1320	6.8	6.8	27.5	23.0	7.6
SEP							
01...	1500	1460	6.9	7.0	24.0	24.0	8.0

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
09...	73	8	1.8	<30	18	--	--	.32	.920	.190	2.0
NOV											
05...	80	10	3.2	930	20	16	70	.26	1.65	.200	3.0
DEC											
04...	78	6	1.6	40	22	7	56	.24	1.02	.360	2.0
JAN											
06...	86	5	1.3	<30	18	8	56	.30	1.55	.500	4.0
FEB											
03...	84	22	1.8	<30	17	22	76	.26	1.68	.230	2.5
MAR											
05...	87	25	4.6	430	23	35	84	.28	1.31	.440	6.7
APR											
06...	107	23	5.3	55	26	33	108	.30	2.40	.540	4.2
MAY											
05...	105	9	6.4	15000	26	13	76	.43	1.92	.480	5.0
JUN											
03...	97	48	5.4	43000	21	48	116	.60	.950	.460	6.0
JUL											
07...	64	52	2.0	1500	16	80	116	.41	.480	.290	4.5
AUG											
03...	69	8	2.1	70	14	17	56	.80	.890	.310	2.5
SEP											
01...	108	11	2.0	40	23	4	40	.60	1.79	.380	2.0

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.

LOCATION.--Lat 33°46'22", long 84°36'53", Douglas County, Hydrologic Unit 03130002, on right bank 100 ft (30 m) upstream from bridge on Interstate Highway 20, 400 ft (122 m) upstream from Blair Bridge, 3 mi (4.8 km) southeast of Austell, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--246 mi^2 (637 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1904 to December 1905, November to December 1913, March 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1724: 1949(M). WDR GA-79-1: 1975(M).

GAGE.--Water-stage recorder. Datum of gage is 857.01 ft (261.217 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). May 6, 1904, to Dec. 31, 1905, and Nov. 3 to Dec. 27, 1913, nonrecording gage at site 2.5 mi (4.0 km) upstream at different datum. Mar. 24 to Nov. 29, 1937, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--45 years (1904-5, 1937-81), 333 ft^3/s (9.43 m^3/s), 18.38 in/yr (467 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s (295 m^3/s) Nov. 29, 1948, gage height, 18.4 ft (5.608 m), maximum gage height, 18.73 ft (5.709 m) Mar. 14, 1975; minimum daily, 2.1 ft^3/s (0.059 m^3/s) Oct. 9, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1916 reached a stage of about 20.0 ft (6.10 m), from information by local resident; discharge, 12,600 ft^3/s (357 m^3/s), from rating extended above 6,500 ft^3/s (184 m^3/s) on basis of contracted-opening measurement at gage height, 18.2 ft (5.55 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,800 ft^3/s (51.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	2300	2600	73.6	8.06	2.457	Mar. 31	0500	1900	53.8	6.41	1.954
Feb. 20	0200	1820	51.5	6.22	1.896	May 28	1500	*3900	110	10.91	2.325

Minimum discharge, 19 ft^3/s (0.54 m^3/s) Sept. 30, gage height, 0.48 ft (0.146 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	595	173	135	106	100	241	1420	120	469	58	81	100
2	412	145	125	104	374	248	827	109	563	99	75	250
3	220	124	119	101	363	234	545	101	719	140	85	210
4	143	114	119	100	281	244	398	97	350	180	82	180
5	109	104	120	98	197	472	585	94	264	130	73	140
6	93	98	118	97	167	416	602	92	383	125	65	110
7	85	96	117	113	155	330	504	94	241	409	150	90
8	79	99	116	121	150	272	371	97	283	318	100	70
9	76	94	117	115	140	242	313	91	245	191	75	50
10	72	94	149	106	482	222	282	101	183	129	90	48
11	68	93	167	102	2270	204	256	118	150	99	120	42
12	63	90	155	101	2370	196	232	99	157	84	100	39
13	60	88	137	100	1680	188	213	94	498	75	80	37
14	59	87	121	98	517	181	200	85	328	66	60	34
15	57	126	112	97	352	177	186	89	183	61	50	59
16	57	154	112	98	294	186	174	85	136	59	45	96
17	56	141	113	95	311	177	168	85	110	63	60	76
18	59	129	108	90	884	203	164	88	98	56	80	69
19	133	118	102	91	1620	274	161	151	89	54	55	53
20	128	108	100	96	1590	245	191	153	82	49	64	46
21	109	103	97	122	882	208	218	133	73	43	60	45
22	90	99	95	137	503	206	186	107	69	38	100	38
23	78	97	95	130	470	272	171	89	65	34	180	35
24	71	136	98	116	392	278	253	80	59	33	100	36
25	82	175	100	107	329	236	187	72	104	31	70	31
26	90	165	97	103	290	212	160	112	102	37	56	28
27	87	173	95	105	266	193	141	2000	90	36	45	26
28	220	191	95	111	252	184	131	3750	90	32	40	26
29	238	173	96	107	---	180	122	3120	71	33	35	24
30	249	152	99	101	---	1080	149	902	62	48	28	20
31	213	---	104	96	---	1680	---	287	---	71	50	---
TOTAL	4151	3739	3533	3264	17681	9681	9510	12695	6316	2881	2354	2108
MEAN	134	125	114	105	631	312	317	410	211	92.9	75.9	70.3
MAX	595	191	167	137	2370	1680	1420	3750	719	409	180	250
MIN	56	87	95	90	100	177	122	72	59	31	28	20
CFSM	.55	.51	.46	.43	2.57	1.27	1.29	1.67	.86	.38	.31	.29
IN.	.63	.57	.53	.49	2.67	1.46	1.44	1.92	.96	.44	.36	.32

CAL YR 1980 TOTAL 135426 MEAN 370 MAX 3050 MIN 18 CFSM 1.50 IN 20.48
WTR YR 1981 TOTAL 77913 MEAN 213 MAX 3750 MIN 20 CFSM .87 IN 11.78

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 08...	1415	78	6.8	7.0	29.0	15.0	9.8
NOV 05...	1515	102	7.0	7.2	17.0	13.0	8.7
DEC 04...	1045	120	7.6	7.1	10.0	6.0	10.6
JAN 06...	1615	96	7.0	7.4	8.0	2.5	10.1
FEB 03...	1715	353	6.5	6.9	1.5	4.0	9.4
MAR 05...	1415	482	7.6	7.3	15.5	11.0	9.9
APR 06...	1800	580	--	6.9	17.0	16.5	7.8
MAY 05...	1615	92	6.9	7.2	30.0	19.0	7.1
JUN 03...	1730	496	6.7	6.7	31.0	22.5	6.1
JUL 07...	0950	469	6.7	6.7	31.0	23.0	6.1
AUG 03...	1030	85	6.7	7.2	30.0	22.5	6.8
SEP 01...	1400	180	7.2	7.1	24.5	23.5	6.9

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 08...	73	10	.8	230	21	.24	.050	.030	2.5
NOV 05...	72	8	1.0	430	24	.07	<.020	.020	4.0
DEC 04...	72	7	1.6	2300	22	.22	.060	.030	1.0
JAN 06...	74	8	1.0	150	23	.28	.060	.030	2.0
FEB 03...	69	21	2.1	430	15	.29	.100	.060	4.5
MAR 05...	63	33	1.6	2300	20	.29	.100	.100	4.0
APR 06...	60	20	1.2	1500	16	.17	.080	.060	3.0
MAY 05...	84	10	1.3	680	29	.32	<.020	.040	5.0
JUN 03...	61	60	1.9	15000	16	.19	.040	.100	4.0
JUL 07...	51	240	3.6	15000	14	.26	.150	.350	8.0
AUG 03...	81	11	.7	430	27	.13	.050	.230	2.0
SEP 01...	69	23	.7	430	21	.20	.070	.040	2.0

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
07...	1115	85	--	7	1.6
NOV					
18...	1030	130	9.0	7	2.5
JAN					
09...	1030	116	2.0	4	1.3
FEB					
20...	1225	1610	12.0	52	226
JUL					
29...	1115	27	26.0	10	.73

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.

LOCATION.—Lat 33°39'24", long 84°40'25", Fulton-Douglas County line, Hydrologic Unit 03130002, at downstream end of pier of bridge on State Highways 74 and 92, 1.4 mi (2.3 km) downstream from Deep Creek, 8.5 mi (13.7 km) northwest of Fairburn, and at mile 281.8 (453.4 km).

DRAINAGE AREA.—2,060 mi^2 (5,340 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—July 1965 to current year.

GAGE.—Water-stage recorder. Datum of gage is 719.07 ft (219.173 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.—Records good. Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant.

AVERAGE DISCHARGE.—16 years, 3,816 ft^3/s (108 m^3/s), 25.16 in/yr (639 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 37,500 ft^3/s (1,060 m^3/s) Apr. 14, 1979, gage height, 25.18 ft (7.675 m); minimum daily, 1,000 ft^3/s (28.3 m^3/s) July 1, 1970.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 16,500 ft^3/s (467 m^3/s) Feb. 11, gage height, 16.34 ft (4.980 m); minimum daily, 1,180 ft^3/s (33.4 m^3/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6250	2350	1600	1720	1410	1690	5490	1680	2760	1300	2030	1760
2	3910	1440	1750	1340	3230	1780	4050	1600	1960	1680	1820	1770
3	4670	1410	1930	1410	2440	1900	2320	1360	3170	1740	1840	1480
4	3260	1570	1780	1370	2150	2010	2030	1330	1790	1770	1680	2420
5	1600	1510	1730	1300	2060	3480	3400	1350	1810	1700	1660	2320
6	1320	1770	1680	1790	1760	2540	2840	1330	2020	2370	2500	1500
7	1920	1690	1400	1590	1600	2130	2150	1410	2090	2960	4220	1480
8	2190	1660	1390	1650	1500	1760	1930	1380	1910	1980	2100	1360
9	2230	1430	1410	1570	1450	1640	1820	1360	1650	2340	1910	2190
10	2480	1320	2100	1520	2000	1710	1750	1340	1530	2030	1840	2480
11	2300	1360	2120	1370	13000	1790	1710	3140	1470	1640	4300	2320
12	1260	1590	1830	1270	14000	1890	1680	1560	1510	1860	2710	2380
13	1240	1650	1760	1340	8500	1780	1630	1400	2330	1840	3520	1350
14	1930	1670	1440	1500	5000	1780	1600	1370	1780	1550	3190	1230
15	2510	2260	1380	1320	3500	1570	1580	1630	1530	1560	4280	2150
16	4300	2330	1440	1340	2700	1570	1640	1570	1460	1900	3700	3480
17	2680	1520	1670	1550	2100	1660	1750	1390	1330	1860	2510	2890
18	2480	1740	1630	1330	8000	1970	1710	1340	1310	1570	2650	2710
19	2140	1820	1690	1280	9500	2530	1520	1890	1290	1600	2420	2640
20	1450	1780	1610	1310	5500	2130	1680	1880	1320	1520	2350	1600
21	2950	1590	1390	2040	3180	1890	1810	1900	1320	1790	4490	1270
22	2980	1430	1300	1550	2260	1630	1840	1720	1330	1670	2790	2580
23	2730	1410	1470	1650	2370	1780	1760	1400	1450	1390	2150	3620
24	2440	1710	1790	1430	2370	1750	2070	1300	1220	1460	2010	3560
25	2660	1650	1480	1320	2300	1910	1890	1280	1550	1470	2970	3350
26	1600	1890	1400	1310	2140	1810	1470	1480	1500	1520	3830	2970
27	1330	2000	1650	1340	2090	1820	1440	7340	1430	1820	2040	1800
28	3210	2300	1420	1570	2050	1780	1420	6030	1250	1790	1200	1670
29	3100	2400	1330	1720	---	1480	1420	4870	1330	1420	1180	2980
30	2590	1800	1470	1590	---	7040	2030	3010	1200	1740	1430	3280
31	2850	---	1740	1560	---	6500	---	1780	---	1880	1530	---
TOTAL	80560	52050	49780	45950	110160	68700	61430	63420	49600	54720	78850	68590
MEAN	2599	1735	1606	1482	3934	2216	2048	2046	1653	1765	2544	2286
MAX	6250	2400	2120	2040	14000	7040	5490	7340	3170	2960	4490	3620
MIN	1240	1320	1300	1270	1410	1480	1420	1280	1200	1300	1180	1230

CAL YR 1980 TOTAL 1636090 MEAN 4470 MAX 20100 MIN 1120 MEAN† 4111 CFSM† 2.00 IN† 27.09
WTR YR 1981 TOTAL 783810 MEAN 2147 MAX 14000 MIN 1180 MEAN† 1876 CFSM† 0.91 IN† 12.36

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1966 to May 1972, March 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1976 to current year.
pH: July 1976 to current year.
WATER TEMPERATURES: October 1975 to current year.
DISSOLVED OXYGEN: July 1976 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 192 micromhos Feb. 20, 1979; minimum, 33 micromhos July 7, 1976.
pH: Maximum recorded, 7.5 units Nov. 20-23, 1980; minimum, 5.5 units Aug. 12, Sept. 13, 1978.
WATER TEMPERATURE: Maximum, 32.0°C June 24, 1981; minimum, 3.0°C Jan. 18, 1977.
DISSOLVED OXYGEN: Maximum, 13.1 mg/L Mar. 24, 1977; minimum, 1.6 mg/L July 26, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 145 micromhos July 29; minimum recorded, 50 micromhos Aug. 15.
pH: Maximum recorded, 7.5 units Nov. 20-23; minimum recorded, 6.1 units July 6.
WATER TEMPERATURE: Maximum, 32.0°C June 24; minimum, 4.5°C Feb. 13.
DISSOLVED OXYGEN: Maximum, 11.8 mg/L Feb. 13; minimum recorded, 2.5 mg/L June 25.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT									
21...	1500	2690	71	65	--	7.0	21.5	16.0	7.9
NOV									
18...	1420	1820	113	104	7.2	7.2	7.5	15.0	7.1
DEC									
10...	1030	2050	119	110	7.0	7.0	10.0	15.0	6.5
JAN									
15...	1130	1300	126	122	6.7	6.9	6.5	8.5	9.6
FEB									
10...	1330	1400	117	108	7.2	7.2	6.0	9.0	9.8
MAR									
10...	1040	1800	122	111	7.3	7.3	11.0	12.0	8.1
APR									
07...	1040	1790	104	103	6.8	7.0	17.0	17.0	7.1
MAY									
27...	1115	9150	82	81	6.8	7.1	20.0	20.5	5.8
JUN									
30...	1345	1170	124	121	6.6	6.9	29.0	27.0	4.1
JUL									
21...	0900	2050	104	102	6.7	7.0	22.0	27.5	4.1
AUG									
12...	0950	3110	76	73	6.7	6.9	26.0	19.0	7.4
SEP									
09...	0900	2520	85	78	6.8	6.8	20.0	23.0	6.1

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	20	7	4.0	1500	18	38	88	.52	.440	.82	.260	6.0
NOV 18...	12	10	3.4	930	23	27	94	.80	1.50	1.87	.580	3.0
DEC 10...	60	14	13	230000	24	94	192	.64	1.42	3.00	1.09	13
JAN 15...	8	17	2.8	2300	26	9	88	.68	1.74	2.60	.720	8.0
FEB 10...	19	17	4.2	430	27	39	108	.54	2.18	2.40	.630	4.0
MAR 10...	16	16	6.2	4300	26	21	88	.58	1.82	2.90	.750	3.5
APR 07...	32	15	7.2	4300	24	48	132	.60	1.25	1.50	.400	3.6
MAY 27...	240	--	10	75000	20	404	712	.47	.550	2.40	.860	7.0
JUN 30...	21	16	7.6	2300	22	41	116	1.5	1.49	2.50	1.05	3.0
JUL 21...	19	12	6.2	430000	21	41	100	1.2	1.24	2.20	.920	4.6
AUG 12...	42	12	2.9	1600	16	88	136	.56	.540	.87	.360	3.5
SEP 09...	29	12	4.4	2300	14	66	130	.94	.700	1.50	.540	5.0

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.—Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	66	58	105	69	110	99	119	83	126	110	127	108
2	86	61	120	104	126	96	103	95	111	80	120	105
3	75	52	111	106	111	93	109	93	95	83	119	105
4	84	59	139	108	107	87	108	97	104	98	125	106
5	104	69	128	118	119	87	106	98	105	94	124	77
6	107	97	117	100	126	89	106	81	115	93	100	83
7	116	82	118	99	125	113	125	89	117	105	127	92
8	121	75	118	101	113	105	120	88	118	102	120	103
9	108	69	116	108	125	106	119	100	118	106	111	104
10	110	77	116	107	124	106	119	97	124	77	123	105
11	98	66	133	106	105	93	110	100	---	---	130	108
12	122	102	128	116	110	96	112	95	---	---	128	98
13	114	105	127	107	111	93	128	101	---	---	127	102
14	119	75	119	104	121	109	118	106	---	---	124	104
15	106	61	118	102	109	98	127	111	---	---	123	106
16	96	52	104	84	129	97	128	117	---	---	118	107
17	104	59	110	91	124	102	125	111	---	---	133	112
18	107	63	127	106	130	106	122	107	---	---	130	107
19	112	98	123	106	121	104	118	106	78	69	131	87
20	105	98	122	106	121	99	133	111	83	76	121	87
21	113	70	124	106	113	102	134	97	104	86	121	92
22	100	76	122	114	117	104	127	98	108	99	---	---
23	104	67	124	107	126	106	136	109	114	89	100	98
24	110	66	129	104	106	93	140	112	117	94	113	98
25	117	68	121	101	107	99	132	115	121	97	118	89
26	112	94	113	94	105	88	118	108	129	94	121	94
27	118	107	121	91	100	77	134	108	131	96	121	95
28	114	75	92	76	101	90	141	120	126	93	131	102
29	83	70	102	86	103	93	119	102	---	---	119	110
30	125	81	102	88	110	96	127	109	---	---	---	---
31	112	72	---	---	107	86	127	102	---	---	70	68
MONTH	125	52	139	69	130	77	141	81	131	69	133	68

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	79	66	126	98	110	86	122	101	98	76	133	81
2	86	70	123	93	119	90	123	105	108	74	134	107
3	108	86	114	105	114	70	116	88	94	71	123	108
4	111	98	117	104	127	101	113	88	112	81	118	80
5	109	76	125	110	137	113	98	81	115	83	99	86
6	91	74	136	123	134	108	91	66	116	62	109	92
7	112	92	134	116	112	99	88	80	72	62	106	90
8	124	107	138	117	104	99	108	84	---	---	104	91
9	130	114	132	120	122	104	107	70	---	---	110	74
10	136	120	121	101	125	113	100	75	---	---	104	70
11	134	116	107	73	136	110	109	95	---	---	98	68
12	127	116	135	89	132	122	112	91	93	74	93	65
13	119	109	135	116	121	101	94	87	102	63	113	81
14	139	117	140	121	116	101	113	95	79	63	113	101
15	132	119	---	---	116	99	122	92	92	50	113	86
16	120	105	---	---	130	107	124	82	76	62	---	---
17	120	97	---	---	129	116	106	81	---	---	---	---
18	125	92	---	---	127	119	115	96	85	66	---	---
19	110	99	---	---	130	117	107	82	96	67	---	---
20	102	92	---	---	127	120	106	82	98	64	---	---
21	126	110	113	96	120	107	111	83	96	56	102	97
22	124	94	124	109	110	105	114	83	96	62	106	59
23	123	98	142	111	117	103	109	90	100	68	72	54
24	129	91	138	118	132	116	115	93	100	64	74	54
25	113	88	134	115	132	107	118	86	113	60	78	56
26	109	98	125	116	141	112	110	81	73	55	72	56
27	108	96	83	51	126	102	126	81	100	62	79	68
28	130	99	56	52	115	105	105	74	135	101	---	---
29	133	118	71	57	110	91	145	99	130	117	---	---
30	129	95	111	72	126	113	113	96	128	104	77	58
31	---	---	124	97	---	---	115	85	112	98	---	---
MONTH	139	66	142	51	141	70	145	66	135	50	134	54
YEAR	145	50										

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.—Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.1	7.0	7.0	6.6	7.2	7.2	7.0	7.0	7.2	7.1	7.3	7.2
2	7.1	7.0	7.1	6.9	7.2	7.1	7.0	7.0	7.2	6.9	7.3	7.3
3	7.1	7.0	7.1	6.9	7.3	7.2	7.0	7.0	7.1	7.0	7.4	7.3
4	7.1	7.0	7.1	7.1	7.3	7.2	7.0	6.9	7.2	7.1	7.4	7.3
5	7.2	7.1	7.2	7.1	7.3	7.3	7.0	6.9	7.2	7.1	7.3	7.2
6	7.2	7.1	7.1	7.1	7.3	7.3	6.9	6.9	7.1	7.1	7.3	7.2
7	7.2	7.1	7.1	7.0	7.3	7.2	7.0	6.8	7.1	7.0	7.3	7.2
8	7.2	7.1	7.1	7.0	7.2	7.0	7.0	7.0	7.1	7.1	7.3	7.2
9	7.2	7.1	7.3	7.1	7.2	7.0	7.0	6.9	7.2	7.1	7.3	7.2
10	7.2	7.1	7.2	7.1	7.2	7.1	7.0	6.9	7.2	6.9	7.3	7.2
11	---	---	7.2	7.1	7.2	7.2	7.0	6.9	7.0	6.8	7.3	7.3
12	---	---	7.2	7.1	7.3	7.2	7.0	6.9	7.0	6.9	7.3	7.3
13	---	---	7.2	7.2	7.3	7.2	7.0	6.9	7.1	7.0	7.3	7.2
14	---	---	7.2	7.2	7.3	7.3	7.0	6.9	7.1	7.1	7.2	7.2
15	---	---	7.2	7.1	7.3	7.2	7.0	6.9	7.1	7.1	7.2	7.1
16	---	---	7.2	7.1	7.2	7.1	7.0	6.9	7.1	7.1	7.2	7.1
17	---	---	7.2	7.2	7.3	7.2	7.1	6.9	7.1	7.0	7.2	7.0
18	---	---	7.3	7.2	7.3	7.2	7.1	7.0	7.1	6.9	7.1	7.0
19	---	---	7.4	7.3	7.3	7.2	7.1	6.9	7.0	6.9	7.0	6.9
20	---	---	7.5	7.4	7.3	7.2	7.0	7.0	7.1	7.0	6.9	6.9
21	---	---	7.5	7.4	7.2	7.1	7.1	6.9	7.1	7.1	6.9	6.9
22	---	---	7.5	7.4	7.2	7.1	7.1	7.0	7.2	7.1	---	---
23	---	---	7.5	7.4	7.1	7.0	7.1	7.0	7.2	7.1	6.9	6.9
24	---	---	7.4	7.2	7.2	7.1	7.1	7.0	7.2	7.2	6.9	6.9
25	---	---	7.4	7.3	7.3	7.1	7.1	7.1	7.2	7.0	6.9	6.8
26	---	---	7.3	7.2	7.3	7.2	7.1	7.0	7.3	7.2	6.9	6.8
27	---	---	7.2	7.1	7.3	7.2	7.0	7.0	7.3	7.2	6.8	6.8
28	7.1	6.9	7.2	7.1	7.3	7.2	7.0	6.9	7.3	7.2	6.8	6.7
29	6.9	6.7	7.2	7.1	7.2	7.1	7.0	6.8	---	---	6.7	6.5
30	7.0	6.5	7.2	7.1	7.2	7.1	7.2	7.0	---	---	---	---
31	7.2	6.7	---	---	7.0	7.1	7.2	7.1	---	---	6.7	6.6
MONTH	7.2	6.5	7.5	6.6	7.3	7.0	7.2	6.8	7.3	6.8	7.4	6.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.7	6.6	6.8	6.7	6.9	6.7	6.6	6.5	6.7	6.6	6.8	6.6
2	6.8	6.6	6.8	6.7	6.9	6.8	6.7	6.5	6.8	6.5	6.8	6.6
3	6.8	6.7	6.9	6.8	6.9	6.7	6.8	6.7	6.8	6.6	6.7	6.5
4	6.8	6.7	6.9	6.9	6.8	6.8	6.9	6.8	6.8	6.6	6.5	6.2
5	6.9	6.7	6.9	6.8	6.8	6.7	6.9	6.8	6.8	6.6	6.3	6.2
6	6.8	6.7	6.8	6.7	6.8	6.7	6.9	6.1	6.7	6.4	6.3	6.2
7	6.8	6.7	6.8	6.7	6.7	6.7	6.3	6.2	6.4	6.2	6.3	6.2
8	6.8	6.7	6.8	6.6	6.8	6.7	6.6	6.3	---	---	6.6	6.2
9	6.8	6.7	6.7	6.5	6.8	6.7	6.7	6.3	---	---	7.1	6.5
10	6.8	6.7	6.5	6.3	6.8	6.7	6.8	6.4	---	---	7.1	7.0
11	6.8	6.7	6.7	6.3	6.9	6.7	6.9	6.6	---	---	7.2	7.0
12	6.8	6.7	6.8	6.7	6.8	6.7	6.9	6.7	6.7	6.4	7.1	6.9
13	6.7	6.7	6.8	6.7	6.7	6.5	6.7	6.5	6.5	6.3	7.0	6.9
14	6.8	6.6	6.7	6.7	6.6	6.5	6.8	6.6	6.5	6.2	6.9	6.7
15	6.9	6.8	---	---	6.5	6.4	6.8	6.6	6.5	6.2	6.7	6.6
16	6.9	6.8	---	---	6.5	6.4	6.8	6.6	6.4	6.2	---	---
17	6.9	6.8	---	---	6.6	6.5	6.9	6.7	---	---	---	---
18	6.9	6.8	---	---	6.6	6.5	6.9	6.7	6.9	6.8	---	---
19	6.9	6.8	---	---	6.6	6.5	6.9	6.7	7.1	6.9	---	---
20	6.9	6.7	---	---	6.6	6.5	6.8	6.6	7.1	7.0	---	---
21	6.9	6.8	6.8	6.6	6.6	6.4	6.7	6.5	7.3	7.0	6.8	6.7
22	6.9	6.8	6.8	6.7	6.5	6.4	6.8	6.6	7.3	7.0	6.9	6.7
23	7.0	6.8	6.8	6.8	6.6	6.5	6.9	6.8	7.3	7.1	6.9	6.7
24	7.0	6.9	6.9	6.8	6.7	6.6	6.8	6.6	7.2	6.9	6.9	6.7
25	7.0	6.8	6.9	6.7	6.7	6.6	6.9	6.6	7.2	7.0	6.8	6.7
26	6.9	6.7	6.9	6.8	6.6	6.6	6.6	6.4	7.2	6.8	6.9	6.7
27	6.7	6.7	6.9	6.7	6.7	6.6	6.6	6.4	7.2	7.0	6.7	6.7
28	6.8	6.7	6.8	6.7	6.7	6.6	6.7	6.5	7.1	7.0	---	---
29	6.7	6.7	6.8	6.7	6.7	6.6	6.9	6.7	7.0	6.9	---	---
30	6.8	6.7	6.9	6.8	6.7	6.6	6.9	6.5	6.9	6.7	7.1	7.0
31	---	---	6.9	6.8	---	---	6.9	6.7	6.8	6.6	---	---
MONTH	7.0	6.6	6.9	6.3	6.9	6.4	6.9	6.1	7.3	6.2	7.2	6.2
YEAR	7.5	6.1										

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.5	16.0	15.0	13.5	12.0	9.5	10.0	9.0	9.5	9.0	14.5	13.5
2	19.0	16.5	16.0	14.0	12.5	11.5	10.5	9.0	9.5	8.0	15.0	13.5
3	18.0	16.0	16.5	15.0	12.0	10.5	11.5	10.0	8.0	7.0	14.5	13.5
4	17.0	15.5	18.0	16.5	12.0	10.5	10.5	10.0	8.0	6.0	14.5	12.0
5	17.5	16.0	16.5	16.0	10.5	10.0	9.5	9.0	8.5	6.5	12.0	11.5
6	18.0	16.0	15.5	14.0	11.5	10.5	9.5	8.0	9.5	8.0	12.0	11.0
7	17.0	16.0	15.0	14.0	14.0	10.5	10.5	8.5	10.0	9.5	12.0	11.5
8	17.5	15.5	15.5	14.5	16.5	11.5	9.5	8.0	11.0	10.0	13.0	11.0
9	18.0	16.0	16.5	15.0	14.5	11.5	10.0	7.5	10.5	9.0	13.5	10.5
10	18.5	16.5	17.5	16.0	15.0	13.0	9.5	8.0	10.5	7.5	14.0	12.0
11	18.5	16.5	16.5	15.5	13.5	12.0	8.5	8.0	7.5	6.5	14.0	13.0
12	19.0	17.5	15.5	14.0	12.5	12.0	7.5	6.5	6.5	5.5	14.0	13.0
13	18.0	16.0	14.0	13.0	12.5	11.0	8.0	6.5	6.0	4.5	13.5	13.0
14	17.0	16.0	15.0	13.5	11.5	10.0	8.5	6.5	7.5	6.0	14.0	13.0
15	16.5	14.0	15.5	15.0	11.5	10.0	10.0	8.5	9.0	6.5	14.5	12.5
16	17.0	15.0	16.0	15.5	13.0	11.5	10.5	9.0	11.5	8.5	15.0	13.5
17	19.0	16.5	15.5	15.0	12.0	10.5	10.0	7.5	13.0	11.5	15.0	12.5
18	20.0	17.0	16.0	13.5	11.5	10.5	9.0	7.0	13.0	12.0	14.5	13.0
19	20.0	18.5	14.0	12.0	12.0	10.5	10.5	8.0	12.5	11.5	13.0	12.0
20	19.0	18.0	12.5	11.5	12.0	10.5	10.5	9.5	13.0	12.0	12.5	11.5
21	18.0	16.0	12.5	11.0	11.0	10.0	10.5	8.5	13.5	12.0	13.0	12.0
22	16.5	15.0	13.0	11.5	10.0	8.5	11.0	9.0	13.5	12.5	---	---
23	16.5	15.5	13.5	12.5	10.5	8.5	11.0	10.0	13.5	12.5	12.5	11.5
24	16.0	14.5	13.5	12.5	11.0	9.5	12.0	10.5	12.5	11.5	14.0	11.0
25	16.0	14.0	13.0	12.5	10.0	8.0	12.0	9.5	12.0	11.5	13.0	12.0
26	15.0	14.0	13.0	11.5	8.5	7.5	12.5	10.0	12.5	11.0	14.5	13.0
27	16.5	14.5	12.5	11.0	7.5	6.5	13.0	12.0	13.0	12.0	15.5	14.5
28	16.0	14.5	11.0	10.0	8.5	7.0	13.0	11.5	13.5	12.0	16.5	15.5
29	15.0	14.5	11.5	10.5	11.0	8.5	12.5	10.5	---	---	18.5	16.0
30	15.0	14.0	11.5	10.0	11.5	10.0	12.0	10.0	---	---	---	---
31	14.5	13.5	---	---	10.5	9.5	11.0	9.0	---	---	18.0	16.5
MONTH	20.0	13.5	18.0	10.0	16.5	6.5	13.0	6.5	13.5	4.5	18.5	10.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.0	17.0	22.5	21.0	24.0	23.0	27.5	26.0	21.5	19.5	25.0	23.0
2	18.0	16.5	21.5	19.5	24.5	23.5	26.0	23.5	22.5	20.0	24.0	23.5
3	19.0	17.0	22.0	19.5	24.5	22.5	23.5	23.0	22.5	20.5	25.0	23.5
4	19.5	17.5	23.0	19.0	26.5	24.0	24.0	23.0	24.0	22.0	24.0	22.5
5	19.0	17.5	23.5	21.0	26.0	25.5	25.0	24.0	24.5	23.5	23.0	22.0
6	18.0	16.0	23.0	22.5	26.0	25.0	24.0	22.5	25.5	21.0	24.0	22.0
7	18.5	16.5	22.5	21.0	26.0	25.0	25.5	23.0	21.0	19.0	24.0	22.5
8	19.5	17.0	22.5	20.0	26.0	25.0	27.5	24.5	---	---	24.5	22.5
9	20.0	18.5	22.0	19.5	28.0	25.5	27.0	23.0	---	---	24.0	21.0
10	21.5	19.5	21.5	19.5	29.5	27.0	25.5	23.0	---	---	22.0	18.0
11	22.0	20.0	20.0	18.5	28.0	26.5	27.0	25.0	---	---	21.0	18.0
12	22.5	20.0	21.0	18.0	29.0	26.5	27.5	25.5	22.5	19.0	21.0	18.0
13	23.5	21.0	22.5	18.5	27.5	26.5	26.5	25.0	23.0	18.5	23.5	20.0
14	24.5	21.0	21.0	19.5	28.5	26.0	28.0	25.5	20.0	17.0	25.0	21.5
15	23.5	21.5	---	---	30.5	27.5	28.0	27.0	20.5	16.0	24.0	23.0
16	22.0	20.5	---	---	30.0	28.0	27.5	25.0	18.0	17.0	---	---
17	21.0	19.5	---	---	31.0	28.0	26.0	24.5	---	---	---	---
18	21.5	20.0	---	---	31.0	28.5	26.5	25.0	20.0	19.0	---	---
19	23.0	20.0	---	---	30.5	28.0	26.5	25.0	20.0	17.0	---	---
20	22.0	21.0	---	---	30.0	28.0	27.0	25.5	21.0	17.5	---	---
21	21.0	20.0	22.5	19.5	31.0	29.0	27.5	24.0	21.0	16.0	20.5	19.5
22	20.5	19.0	22.5	20.5	31.0	28.5	26.0	24.0	20.0	16.5	20.5	16.5
23	20.5	19.5	24.0	21.0	30.0	28.5	27.5	24.0	20.5	18.0	18.0	16.0
24	20.5	19.5	25.0	22.0	32.0	29.0	27.5	26.5	21.5	18.5	18.0	16.0
25	19.5	19.5	25.0	22.5	30.5	29.0	27.0	24.5	23.0	18.5	18.0	16.0
26	22.5	19.0	24.0	22.5	29.5	28.5	25.0	24.5	18.5	16.5	17.0	16.0
27	23.0	20.0	20.5	19.5	28.5	26.0	26.5	25.0	20.0	17.0	17.5	16.5
28	24.5	21.0	20.5	19.5	27.5	25.0	28.0	25.0	24.5	20.5	---	---
29	24.0	22.0	21.5	20.0	27.5	25.0	28.5	26.5	25.5	23.5	---	---
30	23.5	22.0	24.5	21.5	28.5	26.0	26.5	23.5	25.0	23.5	18.0	16.5
31	---	---	26.5	24.5	---	---	24.5	21.5	25.0	24.0	---	---
MONTH	24.5	16.0	26.5	18.0	32.0	22.5	28.5	21.5	25.5	16.0	25.0	16.0
YEAR	32.0	4.5										

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.—Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.2	7.9	8.7	7.1	9.4	8.6	9.3	8.4	9.2	8.6	8.4	7.8
2	8.1	6.9	7.3	7.0	8.6	8.3	9.0	7.9	9.3	8.8	8.0	7.8
3	8.3	7.4	7.5	6.4	9.2	8.1	8.8	7.8	10.2	9.4	8.3	7.7
4	8.3	7.1	6.5	5.9	8.9	8.1	9.0	8.6	10.8	9.8	8.6	7.6
5	8.1	6.9	6.7	6.0	9.1	8.2	9.5	8.8	10.9	9.8	8.9	8.1
6	7.1	6.7	7.9	6.8	8.8	8.0	10.3	9.1	10.4	9.5	9.3	8.4
7	7.9	6.6	8.0	7.1	---	---	9.8	8.4	9.9	9.2	9.0	8.4
8	8.3	6.5	7.9	7.1	---	---	10.0	8.6	9.5	9.0	8.8	8.3
9	8.3	6.6	7.6	6.6	---	---	10.1	8.9	9.3	9.1	8.8	7.7
10	7.8	6.6	6.8	6.3	9.0	6.3	10.2	9.1	10.0	9.1	8.1	7.4
11	7.9	6.3	6.8	6.4	8.5	7.5	10.2	9.4	10.6	9.8	7.8	7.3
12	6.2	5.9	7.7	6.6	8.3	8.0	10.3	9.9	11.6	10.7	8.1	7.4
13	6.6	6.0	8.2	7.4	9.0	8.3	10.4	10.1	11.8	11.6	7.9	7.3
14	7.6	6.1	8.1	7.3	8.7	8.2	11.1	9.9	11.4	10.8	7.8	7.2
15	8.6	6.8	7.7	6.0	8.7	8.1	9.8	9.0	11.0	10.1	7.6	7.0
16	8.7	7.0	7.0	6.2	8.1	7.7	9.2	8.8	10.1	9.1	7.2	6.4
17	7.6	6.1	7.0	6.7	8.6	7.7	10.1	9.1	9.1	8.3	7.1	6.5
18	8.1	6.2	7.5	6.4	8.7	8.0	10.3	9.3	9.0	8.2	6.9	6.5
19	6.5	5.3	8.5	7.2	9.0	7.9	9.7	9.2	9.3	8.9	7.4	6.0
20	6.2	5.5	9.2	8.5	8.7	8.0	9.2	8.3	9.2	9.0	8.0	7.1
21	7.8	5.6	9.3	8.2	8.9	8.4	9.5	8.2	9.1	8.5	7.7	6.9
22	8.5	7.3	8.9	8.3	9.4	8.5	9.3	8.3	8.7	8.1	---	---
23	8.6	7.2	8.7	8.3	9.2	8.6	9.1	8.4	8.4	8.0	8.6	8.5
24	8.7	7.0	8.5	8.2	9.3	8.4	8.5	8.2	8.9	8.3	8.7	8.2
25	8.7	7.1	8.5	8.1	8.9	8.4	8.7	8.0	9.2	8.5	8.9	8.2
26	8.1	7.2	9.1	8.3	9.9	8.9	8.6	7.8	9.3	8.3	8.5	7.8
27	7.4	6.6	8.8	8.2	10.5	9.2	8.1	7.5	9.0	7.0	8.2	7.5
28	7.7	6.8	9.7	9.1	10.2	9.7	7.9	6.6	9.0	8.3	7.7	7.2
29	8.1	7.7	9.2	8.9	9.7	8.4	9.0	7.3	---	---	7.4	6.6
30	8.1	7.0	9.7	9.0	8.6	8.1	8.4	7.9	---	---	---	---
31	8.4	7.2	---	---	9.3	8.4	9.1	7.9	---	---	8.3	7.8
MONTH	8.7	5.3	9.7	5.9	10.5	6.3	11.1	6.6	11.8	7.0	9.3	6.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.7	7.0	5.0	4.5	5.5	4.5	4.8	3.5	7.1	5.5	5.2	3.5
2	7.9	7.1	5.8	4.8	5.3	5.0	5.0	3.7	7.3	5.5	5.0	3.2
3	7.2	6.5	5.7	5.0	6.3	5.1	6.1	4.3	7.5	6.0	5.1	4.4
4	6.8	6.4	5.5	4.4	5.1	3.9	6.0	4.4	6.1	5.0	5.0	3.4
5	6.7	6.1	4.9	3.6	4.7	4.0	5.9	5.2	6.0	4.7	5.5	4.6
6	7.4	6.8	3.6	2.9	5.1	4.5	5.6	4.7	7.7	4.3	5.7	4.7
7	7.2	6.7	4.9	3.9	5.1	4.2	5.5	4.7	7.8	5.4	5.7	5.0
8	7.0	6.4	5.3	5.0	4.9	4.5	5.3	4.0	---	---	5.7	4.3
9	6.5	5.7	5.7	4.7	4.5	3.8	6.2	4.0	---	---	7.0	3.6
10	5.8	5.4	5.8	5.0	4.0	3.5	6.3	4.9	---	---	8.1	6.0
11	5.6	5.0	5.9	3.8	4.2	3.7	5.3	4.4	---	---	8.5	7.1
12	5.3	4.9	5.4	4.9	4.4	3.9	5.3	3.9	7.5	6.0	8.7	7.0
13	5.3	4.8	5.2	4.5	5.2	3.5	5.5	5.0	8.2	5.7	7.5	5.4
14	5.0	3.7	5.0	4.8	5.0	4.1	5.0	3.8	9.3	7.9	6.0	4.5
15	4.7	3.7	---	---	4.8	3.6	4.8	3.7	10.0	7.5	6.0	4.2
16	5.8	4.9	---	---	4.2	3.5	5.4	3.0	9.2	8.3	---	---
17	6.4	5.6	---	---	4.2	3.4	5.8	4.5	---	---	---	---
18	6.5	5.4	---	---	3.6	3.0	4.6	4.0	7.6	6.5	---	---
19	6.4	5.3	---	---	3.5	2.9	5.1	4.2	8.2	6.2	---	---
20	5.8	4.1	---	---	3.7	3.1	5.4	3.9	8.1	6.1	---	---
21	5.1	2.9	6.1	5.3	3.6	3.0	5.7	3.6	8.6	6.3	7.7	6.7
22	6.4	5.3	6.0	5.4	4.0	3.3	5.3	4.1	8.4	6.4	9.4	6.5
23	6.5	5.6	5.8	5.2	4.2	3.3	5.1	3.3	7.9	6.2	9.7	8.4
24	6.8	5.1	5.9	5.3	3.4	2.6	4.5	3.4	7.9	5.7	9.7	8.4
25	6.8	5.8	6.0	5.6	4.0	2.5	4.9	3.5	8.0	5.2	9.7	8.4
26	6.3	5.4	5.9	4.6	4.2	2.8	5.5	3.9	8.3	7.5	9.5	8.7
27	5.8	4.9	7.6	5.8	5.3	3.5	5.4	3.0	8.1	5.8	9.4	8.7
28	5.1	3.9	7.8	7.4	5.2	4.3	5.7	3.1	6.0	4.3	---	---
29	4.5	3.1	7.4	6.9	5.8	4.3	3.9	3.3	4.6	4.0	---	---
30	4.8	3.7	6.9	4.6	4.1	3.4	5.4	3.6	4.7	4.2	8.1	7.3
31	---	---	4.7	4.1	---	---	5.5	4.6	5.1	4.9	---	---
MONTH	7.9	2.9	7.8	2.9	6.3	2.5	6.3	3.0	10.0	4.0	9.7	3.2
YEAR	11.8	2.5										

02337500 SNAKE CREEK NEAR WHITESBURG, GA.

LOCATION.—Lat 33°31'46", long 84°55'42", Carroll County, Hydrologic Unit 03130002, at downstream end of left bank pier of highway bridge, at Banning Mills, 1.5 mi (2.4 km) north of State Highway 16, 3 mi (4.8 km) northwest of Whitesburg, 4 mi (6.4 mi) downstream from Little Snake Creek, and 7 mi (11.3 km) upstream from mouth.
DRAINAGE AREA.—37 mi^2 (96 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—September 1954 to current year.
GAGE.—Water-stage recorder. Altitude of gage is 850 ft (259 m), from topographic map.
REMARKS.—Records good.
AVERAGE DISCHARGE.—27 years, 58.0 ft^3/s (1.64 m^3/s), 21.29 in/yr (541 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 7,690 ft^3/s (218 m^3/s) Feb. 25, 1961, gage height, 14.40 ft (4.389 m); minimum, 2.3 ft^3/s (0.065 m^3/s) Oct. 7, 1954, gage height, 1.56 ft (0.475 m).
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 10	1915	1360	38.5	6.09	1.856
Mar. 30	0900	1390	39.4	6.17	1.881
May 26	2215	*2190	62.0	7.86	2.396

Minimum discharge, 9.2 ft3/s (0.26 m3/s) Sept. 30, gage height, 1.90 ft (0.579 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	25	26	21	21	43	152	30	54	34	17	31
2	41	24	25	20	62	48	100	30	68	45	17	30
3	32	23	24	20	41	42	75	29	69	35	17	19
4	27	27	24	20	34	50	65	28	50	29	15	32
5	25	22	24	19	31	71	117	28	43	39	14	31
6	24	21	24	20	29	55	88	29	40	41	13	20
7	22	20	23	25	28	48	71	30	41	37	13	16
8	21	20	23	22	28	45	63	29	39	31	14	15
9	21	20	28	21	26	42	59	26	35	25	14	14
10	20	20	55	20	411	40	56	31	34	21	13	13
11	19	19	38	20	486	39	53	40	41	21	102	13
12	18	19	32	20	118	37	52	31	46	20	38	12
13	18	19	30	19	77	37	48	28	35	19	19	12
14	18	19	28	19	63	37	46	27	34	18	16	12
15	18	36	27	19	56	36	45	27	31	18	15	18
16	18	30	26	18	50	37	43	26	29	17	15	20
17	18	26	26	18	65	35	43	26	28	17	16	16
18	21	26	25	18	228	45	42	25	27	17	22	13
19	22	24	24	18	219	44	41	35	26	16	23	13
20	20	23	24	20	111	38	41	30	25	15	18	13
21	19	23	23	23	80	36	40	27	25	14	17	12
22	18	22	22	21	69	44	39	24	24	14	16	12
23	18	23	22	20	62	41	39	23	24	13	15	12
24	18	34	24	19	54	38	38	22	24	13	14	11
25	25	28	23	19	50	37	35	22	23	13	14	11
26	21	26	22	18	47	36	34	339	23	13	13	11
27	20	36	21	19	45	34	33	375	23	13	13	11
28	46	32	21	23	43	34	31	96	23	16	12	10
29	31	29	21	20	---	33	31	63	22	14	12	9.9
30	33	27	22	19	---	398	31	52	22	15	17	9.8
31	29	---	21	19	---	121	---	46	---	17	14	---
TOTAL	763	743	798	617	2634	1721	1651	1674	1028	670	588	472.7
MEAN	24.6	24.8	25.7	19.9	94.1	55.5	55.0	54.0	34.3	21.6	19.0	15.8
MAX	62	36	55	25	486	398	152	375	69	45	102	32
MIN	18	19	21	18	21	33	31	22	22	13	12	9.8
CFSM	.67	.67	.70	.54	2.54	1.50	1.49	1.46	.93	.58	.51	.43
IN.	.77	.75	.80	.62	2.65	1.73	1.66	1.68	1.03	.67	.59	.48

CAL YR 1980 TOTAL 25385.0 MEAN 69.4 MAX 700 MIN 13 CFSM 1.88 IN 25.52
WTR YR 1981 TOTAL 13359.7 MEAN 36.6 MAX 486 MIN 9.8 CFSM .99 IN 13.43

02337500 SNAKE CREEK NEAR WHITESBURG, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—December 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 21...	0800	18	30	26	6.5	6.8	12.5	9.7
AUG 17...	0700	--	28	29	7.1	7.6	24.0	7.4

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
OCT 21...	10	2.1	7	.00	1.5	.8	2.2	1.0	15	1.1
AUG 17...	15	13	34	21	1.6	7.3	2.3	.9	13	4.6

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT 21...	2.0	.1	11	28	1.4	.01	.020	.14	.16	.08
AUG 17...	2.3	<.1	10	28	--	.09	.030	.23	.26	.00

DATE	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT 21...	.08	.17	.020	.010	10	0	0	4	0	0
AUG 17...	.32	.35	.020	.010	10	1	1	1	<10	2

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	270	3	0	20	<.1	<.1	0	10	2.3
AUG 17...	180	17	3	40	.3	<.1	<1	4	1.7

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.

LOCATION.—Lat 33°28'37", long 84°54'04", Carroll-Coweta County line, Hydrologic Unit 03130002, at downstream end of right bank pier of bridge on State Highway 16, 0.5 mi (0.8 km) upstream from Central of Georgia Railroad bridge, 1.2 mi (1.9 km) southeast of Whitesburg, 1.5 mi (2.4 km) downstream from Cedar Creek, 2.0 mi (3.2 km) downstream from Snake Creek, and at mile 259.8 (418.0 km).

DRAINAGE AREA.—2,430 mi^2 (6,290 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1938 to June 1954, January 1965 to current year.

GAGE.—Water-stage recorder. Datum of gage is 682.06 ft (207.892 m) National Geodetic Vertical Datum of 1929. Prior to May 1, 1949, nonrecording gage at site 1.0 mi (1.6 km) upstream at datum 2.00 ft (0.61 m) higher. May 1, 1949, to June 30, 1954, nonrecording gage at present site at datum 2.00 ft (0.61 m) higher.

REMARKS.—Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant.

AVERAGE DISCHARGE.—31 years, 4,055 ft^3/s (115 m^3/s), 22.66 in/yr (576 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 59,000 ft^3/s (1,670 m^3/s) Jan. 10, 1946, gage height, 25.1 ft (7.65 m), site and datum then in use, from graph based on gage readings, from rating extended above 30,000 ft^3/s (850 m^3/s) on basis of velocity-area and channel-capacity studies; minimum daily, 468 ft^3/s (13.3 m^3/s) Oct. 26, 1941.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 23,500 ft^3/s (671 m^3/s) Feb. 11, gage height, 16.61 ft (5.063 m); minimum daily, 1,320 ft^3/s (37.4 m^3/s) Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7890	2910	1730	1930	1550	2110	6530	2080	3060	1470	2430	1800
2	4820	1870	1840	1610	2930	2130	6020	1900	2590	1670	1980	2640
3	4470	1730	2280	1560	3110	2250	3400	1730	3440	2220	1980	1760
4	4210	1780	2080	1580	2530	2340	2810	1630	2500	2000	1880	2310
5	2450	1840	2020	1470	2330	3950	3540	1640	2130	1800	1810	2850
6	1620	2020	1980	1790	2060	3310	4420	1620	2290	2460	1880	1920
7	2110	2000	1730	1840	1840	2650	3020	1700	2540	3220	4260	1650
8	2350	1930	1650	1990	1750	2270	2660	1710	2960	2400	2750	1660
9	2550	1810	1710	1770	1560	2030	2440	1680	2180	2200	2190	2010
10	2560	1570	2460	1700	3050	2050	2330	1640	1890	2620	1950	2570
11	2810	1580	2860	1570	21200	2120	2240	3150	1960	1920	3470	2560
12	1660	1790	2290	1430	12800	2220	2190	2300	2090	1880	3640	2570
13	1480	1880	2180	1410	6460	2130	2110	1770	2360	2090	3100	1820
14	2010	1920	1820	1680	3890	2110	2050	1690	2410	1820	3550	1390
15	2690	2140	1690	1510	2860	1970	2020	1810	1780	1700	3520	1730
16	3470	3160	1690	1450	2320	1870	2010	1930	1810	1800	4320	3780
17	3910	1970	1890	1650	2550	1970	2140	1730	1580	2140	3130	3310
18	2750	1940	1920	1570	6160	2220	2120	1610	1530	1720	2600	2940
19	2380	2130	1960	1400	11600	3040	2010	1890	1500	1780	2840	2800
20	1950	2060	1870	1440	6950	2640	1900	2270	1500	1660	2520	2260
21	2800	1970	1710	1980	4310	2310	2380	2350	1500	1750	3420	1460
22	3150	1680	1520	1930	3100	2100	2190	2070	1470	1850	3980	1810
23	3190	1680	1610	1810	2870	2180	2160	1760	1660	1620	2480	3570
24	2720	1830	2000	1570	2890	2200	2350	1600	1410	1540	2170	3660
25	2800	2070	1840	1520	2730	2270	2370	1540	1600	1580	2410	3540
26	2280	2110	1620	1430	2550	2220	1920	1630	1770	1600	3680	3270
27	1600	2360	1770	1450	2450	2190	1780	8670	1650	1770	3050	2550
28	2760	2700	1700	1600	2410	2180	1760	7430	1440	2030	1460	1700
29	3680	2010	1550	1900	---	1930	1730	5480	1480	1610	1320	2220
30	3200	1970	1610	1720	---	6890	2250	4100	1380	1780	1620	3510
31	3140	---	1930	1680	---	9820	---	2340	---	1820	1860	---
TOTAL	91460	60410	58510	50940	122810	83670	78850	76450	59460	59520	83250	73620
MEAN	2950	2014	1887	1643	4386	2699	2528	2466	1982	1920	2685	2454
MAX	7890	3160	2860	1990	21200	9820	6530	8670	3440	3220	4320	3780
MIN	1480	1570	1520	1400	1550	1870	1730	1540	1380	1470	1320	1390

CAL YR 1980 TOTAL 1854990 MEAN 5068 MAX 25600 MIN 1350 MEAN† 4709 CFSM† 1.94 IN† 26.30
WTR YR 1981 TOTAL 898950 MEAN 2463 MAX 21200 MIN 1320 MEAN† 2192 CFSM† 0.90 IN† 12.24

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to May 1972, July 1975 to current year.
PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: August 1975 to September 1976, November 1978 to current year.
INSTRUMENTATION.—Water-temperature recorder since November 1978.
REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. No daily water-temperature record Feb. 16 to Mar. 5.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum, 31.5°C June 24, 1981; minimum, 4.0°C Jan. 13, 1981.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum, 31.5°C June 24; minimum, 4.0°C Jan. 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 08...	1115	2490	6.7	6.7	27.0	16.0	7.9
NOV 05...	1400	1840	7.0	7.2	19.5	16.0	6.6
DEC 10...	1625	2730	--	7.0	8.0	13.5	7.7
JAN 06...	1415	2040	6.8	7.2	8.5	7.0	8.8
FEB 03...	1330	2980	6.4	6.6	3.0	6.5	9.4
MAR 05...	1310	4880	7.0	7.2	18.0	11.0	9.4
APR 06...	1415	3950	6.7	6.8	20.5	18.0	6.4
MAY 05...	1445	1670	--	7.0	29.0	22.5	5.4
JUN 03...	1330	4260	6.8	6.9	31.5	25.0	5.1
JUL 09...	1215	2200	6.9	7.0	35.0	27.0	4.3
AUG 05...	0800	1540	6.9	6.9	28.5	23.0	5.2
SEP 02...	1730	2390	6.8	6.7	28.5	25.0	4.4

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 08...	76	13	2.8	430	17	850	988	.97	.480	.520	2.0
NOV 05...	104	11	4.4	2300	24	16	84	1.0	1.00	.500	4.5
DEC 10...	95	14	4.2	430	21	28	104	.94	.960	.490	4.0
JAN 06...	88	7	1.8	80	20	12	68	1.1	1.01	.610	3.0
FEB 03...	73	44	4.8	1500	14	76	132	.55	.460	.300	4.5
MAR 05...	77	35	3.6	2300	19	83	130	.58	.470	.490	3.3
APR 06...	69	55	6.6	15000	15	137	200	.53	.200	.300	4.2
MAY 05...	95	14	4.6	390	21	29	96	1.2	.860	.450	3.0
JUN 03...	92	57	4.2	4300	18	113	192	1.0	.280	.320	2.0
JUL 09...	84	28	2.5	1500	16	72	120	1.3	.330	1.08	2.8
AUG 05...	90	10	2.3	430	15	27	72	1.5	.680	.460	1.5
SEP 02...	77	72	4.6	43000	13	125	202	.95	.360	.440	4.0

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAY				
01...	1010	1920	75	389
01...	1020	1920	73	378
JUN				
09...	0900	2230	83	500
09...	0910	2230	83	500
JUL				
09...	0845	2210	78	465
09...	0900	2210	77	459
AUG				
20...	0915	2760	54	402
20...	0930	2760	56	417

DATE	TIME	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
MAY									
01...	1100	--	0	24	70	93	98	100	--
01...	1105	1	2	6	29	72	96	99	100
01...	1110	8	33	78	96	98	98	99	100

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.5	16.5	15.0	13.5	9.5	8.5	8.5	8.0	9.0	8.5	---	---
2	18.0	17.5	15.5	13.5	11.0	8.5	8.5	7.5	8.5	7.5	---	---
3	19.0	17.5	16.0	15.0	11.0	10.0	8.5	7.0	7.5	6.0	---	---
4	17.5	16.0	17.5	15.5	10.5	9.5	9.0	8.0	6.5	5.5	---	---
5	18.0	16.5	17.0	16.0	10.0	9.0	7.5	7.0	6.5	4.5	---	---
6	18.0	16.0	16.0	14.5	10.0	9.0	7.5	6.5	7.0	6.0	12.0	10.5
7	18.0	16.0	15.0	13.5	10.5	9.5	7.5	7.0	8.0	7.0	11.0	10.5
8	18.5	16.5	15.5	14.5	11.5	10.0	8.5	7.0	9.5	8.0	12.0	10.5
9	19.0	16.5	16.0	15.0	13.0	11.5	8.0	6.5	9.0	8.0	12.0	10.5
10	19.5	16.5	17.0	16.0	13.0	13.0	7.5	6.5	9.0	8.0	12.5	10.5
11	19.5	17.5	16.5	15.5	13.0	11.5	7.0	5.5	7.5	7.0	13.5	11.5
12	18.5	16.5	15.5	14.5	11.5	10.0	5.5	4.5	7.0	5.0	13.0	11.5
13	18.5	16.5	14.5	13.5	11.0	10.5	5.0	4.0	5.0	4.5	13.0	12.0
14	17.5	16.0	14.5	13.0	11.0	9.5	6.5	5.0	6.5	4.5	13.5	11.5
15	17.0	15.5	15.0	14.5	9.5	8.5	7.0	5.5	7.0	6.5	13.0	12.0
16	17.5	15.0	15.5	15.0	10.0	9.5	7.5	6.5	---	---	14.0	12.5
17	18.0	16.0	15.5	14.5	10.5	9.5	7.5	6.5	---	---	14.0	12.0
18	20.0	18.0	14.0	13.5	10.0	9.5	7.0	5.5	---	---	13.5	13.0
19	19.5	18.5	13.5	12.5	10.0	9.5	7.5	5.5	---	---	13.0	11.5
20	19.0	18.5	12.5	11.0	10.0	9.0	8.0	7.5	---	---	12.0	10.5
21	18.5	17.0	11.0	10.0	9.0	8.0	9.0	8.0	---	---	12.0	11.0
22	17.5	15.5	11.0	10.0	8.0	7.5	9.0	8.0	---	---	12.0	11.0
23	16.0	16.0	11.5	10.5	7.5	7.0	9.5	8.0	---	---	11.0	11.0
24	16.0	15.5	12.5	11.5	9.5	7.5	9.0	8.5	---	---	13.0	10.5
25	16.0	15.0	12.5	12.0	9.5	7.0	10.5	8.5	---	---	14.0	11.5
26	15.5	14.0	12.0	11.0	7.0	6.0	10.5	8.5	---	---	14.0	12.0
27	15.5	14.0	11.0	10.5	6.0	5.5	11.5	10.0	---	---	15.5	14.0
28	16.0	15.5	10.5	9.0	6.5	5.5	12.0	11.0	---	---	16.0	15.0
29	15.5	15.0	9.5	8.0	8.5	6.5	11.5	10.0	---	---	17.0	16.5
30	15.0	15.0	10.0	9.0	9.0	8.5	11.0	9.5	---	---	17.0	16.0
31	15.5	14.0	---	---	9.0	8.5	9.5	9.0	---	---	17.0	16.0
MONTH	20.0	14.0	17.5	8.0	13.0	5.5	12.0	4.0	9.5	4.5	17.0	10.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.0	17.0	23.5	21.5	25.0	24.0	27.0	26.5	23.5	21.5	25.0	24.5
2	18.5	17.0	21.5	20.5	24.0	23.0	26.5	25.0	21.5	21.0	24.5	23.5
3	18.5	16.0	21.0	19.5	25.5	23.5	25.0	24.0	23.5	21.5	25.0	24.5
4	19.5	17.5	22.0	19.5	25.5	23.0	25.0	24.0	24.0	22.5	25.0	24.5
5	19.0	19.0	23.0	20.0	27.0	25.5	25.0	24.5	25.5	24.5	24.5	23.0
6	19.0	17.0	22.5	22.0	26.5	26.0	25.5	24.5	26.0	25.0	24.5	23.5
7	18.0	16.5	22.0	21.5	26.0	25.5	26.0	23.5	26.0	20.5	25.5	23.5
8	19.0	17.5	22.0	20.0	26.5	25.5	27.5	25.0	24.0	20.5	25.0	24.0
9	20.0	18.5	21.5	20.0	27.0	25.5	28.5	26.0	24.5	23.5	24.5	23.0
10	21.0	19.0	21.0	20.0	28.5	26.5	27.5	26.0	24.5	24.0	24.5	21.0
11	21.5	20.5	20.5	18.5	28.0	26.0	27.5	25.5	24.5	22.5	22.5	18.5
12	22.0	20.5	19.5	17.5	28.5	25.5	28.5	27.0	22.0	20.0	22.0	19.0
13	23.0	21.0	21.0	18.0	28.5	27.0	28.5	27.0	24.0	20.5	22.0	19.5
14	23.5	21.5	21.5	19.5	29.5	27.0	28.0	27.0	21.5	19.5	23.5	22.0
15	23.5	22.0	21.0	20.0	30.5	28.5	29.0	27.5	22.0	19.0	24.0	23.0
16	22.5	21.5	20.0	19.0	30.5	28.5	29.0	28.5	19.5	17.0	24.0	20.0
17	21.5	20.5	20.0	19.0	30.5	28.5	29.0	27.0	22.0	18.5	21.0	20.0
18	21.0	20.5	22.0	19.5	30.5	28.5	28.0	26.0	22.0	21.0	20.5	18.0
19	21.5	21.0	23.0	21.5	30.0	28.5	29.0	27.0	21.5	19.5	18.5	16.5
20	22.0	21.5	22.5	21.0	30.5	29.0	29.0	27.0	21.5	18.5	17.5	16.0
21	21.5	20.0	23.0	21.0	31.0	29.0	29.0	27.0	21.0	18.5	19.0	17.0
22	20.5	19.5	22.5	20.0	31.0	29.0	28.0	26.0	18.5	17.0	21.0	18.0
23	20.5	20.0	23.0	21.0	30.5	28.5	28.0	26.0	21.5	18.5	21.0	18.0
24	20.5	20.0	24.5	22.0	31.5	29.5	29.5	26.0	22.5	19.5	18.0	17.0
25	21.0	19.0	25.0	22.5	30.0	29.0	28.5	27.5	24.0	20.5	18.0	17.0
26	21.0	19.0	24.0	22.0	29.5	28.5	28.5	26.5	22.5	19.0	18.5	17.5
27	23.0	20.0	22.0	19.5	29.0	27.5	26.5	25.5	19.0	18.0	18.5	16.5
28	23.0	21.0	20.5	19.5	29.0	27.0	28.0	26.0	21.0	19.0	19.5	18.0
29	23.5	22.0	22.0	20.0	27.5	25.5	28.0	26.5	24.5	21.0	21.0	19.5
30	24.5	22.5	23.5	21.5	28.5	25.5	28.0	26.5	25.0	24.0	20.0	16.0
31	---	---	25.0	23.5	---	---	26.5	23.5	25.0	24.0	---	---
MONTH	24.5	16.0	25.0	17.5	31.5	23.0	29.5	23.5	26.0	17.0	25.5	16.0
YEAR	31.5	4.0										

02338500 CHATTAHOOCHEE RIVER AT FRANKLIN, GA.

LOCATION.—Lat 33°16'45", long 85°06'00", Heard County, Hydrologic Unit 03130002, at bridge on U.S. Highway 27 at Franklin, and at mile 235.5 (378.9 km).

DRAINAGE AREA.—2,680 mi^2 (6,940 km^2), approximately.

PERIOD OF RECORD.—July 1975 to current year.

REMARKS.—Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Records of discharge for the calendar years 1928-31 and 1938-39 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
08...	1030	6.8	6.9	19.0	17.0	8.4
NOV						
05...	1230	7.1	7.4	19.5	17.0	8.5
DEC						
10...	1515	--	7.1	8.5	14.5	8.8
JAN						
06...	1230	6.9	7.1	8.0	8.5	9.7
FEB						
03...	1215	6.6	6.9	.0	8.0	9.5
MAR						
05...	1045	--	7.2	18.0	13.0	9.4
APR						
06...	1230	6.8	6.8	23.0	18.5	6.8
MAY						
05...	1215	--	7.3	27.0	22.5	6.6
JUN						
03...	1200	6.9	6.9	28.0	26.0	6.1
JUL						
09...	1100	6.9	7.0	32.5	28.5	5.8
AUG						
05...	1030	6.8	7.0	33.0	27.0	6.2
SEP						
02...	1330	7.2	7.0	32.0	28.0	6.5

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
08...	89	11	1.6	750	16	11	80	1.3	.550	.400	2.0
NOV											
05...	95	8	1.6	430	20	11	78	1.2	.260	.280	2.5
DEC											
10...	88	18	1.6	680	18	70	92	1.0	.380	.300	4.0
JAN											
06...	92	6	1.6	<30	17	8	56	1.1	.470	.440	2.0
FEB											
03...	94	34	6.4	2500	17	91	156	.76	.740	.550	4.0
MAR											
05...	87	19	2.9	4300	19	31	84	.80	.430	.360	4.0
APR											
06...	78	38	2.8	430	17	114	178	.80	.220	.280	3.0
MAY											
05...	98	8	2.1	9300	18	13	80	1.3	.100	.260	8.0
JUN											
03...	82	48	1.0	930	13	60	128	1.0	.120	.120	2.0
JUL											
09...	84	56	1.4	430	14	100	156	1.0	.080	.310	4.5
AUG											
05...	94	22	.9	110	12	51	92	1.5	.070	.460	1.0
SEP											
02...	87	42	1.9	8400	13	84	160	1.3	.120	.340	3.0

02338660 NEW RIVER NEAR CORINTH, GA.

LOCATION.—Lat 33°14'07", long 84°59'16", Heard County, Hydrologic Unit 03130002, at bridge on State Highway 100, 1.7 mi (2.7 km) downstream of Caney Creek, 2.5 mi (4.0 km) west of Corinth, 3.9 mi (6.3 km) downstream of Mountain Creek, and 8.1 mi (13.0 km) upstream of Chattahoochee River.
DRAINAGE AREA.—127 mi^2 (329 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1978 to current year.
GAGE.—Water-stage recorder. Datum of gage is 634.68 ft (193.450 m) National Geodetic Vertical Datum of 1929.
REMARKS.—Records good.
EXTREMES FOR PERIOD OF RECORD.—Maximum gage height, 13.92 ft (4.243 m) April 14, 1979 (discharge not determined); minimum daily discharge, 3.5 ft^3/s (0.10 m^3/s) Sept. 29, 1981.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 1,800 ft^3/s (51.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	1800	*5150	146	12.70	3.871

Minimum daily discharge, 3.5 ft^3/s (0.10 m^3/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	312	72	68	66	65	124	443	56	39	12	14	17
2	139	61	65	64	175	186	607	55	39	18	13	18
3	73	57	64	63	187	151	337	52	52	31	16	18
4	52	65	63	66	114	136	230	49	46	24	15	25
5	44	67	61	61	96	295	240	48	37	23	14	66
6	40	58	61	61	89	244	277	49	36	67	12	48
7	37	54	60	80	87	170	191	58	46	53	10	23
8	34	53	60	82	84	145	159	56	46	34	9.2	16
9	33	53	60	73	77	130	144	49	42	26	12	12
10	32	53	176	67	247	121	134	47	34	21	16	10
11	31	52	329	64	3290	115	124	66	33	18	14	8.8
12	29	49	167	62	1900	109	115	64	40	16	28	8.1
13	28	49	118	61	505	105	107	52	35	14	32	7.4
14	28	49	100	60	327	103	101	47	30	12	21	7.1
15	28	83	91	60	255	98	96	43	26	11	15	7.0
16	29	148	87	59	212	107	86	41	22	10	13	9.7
17	30	98	83	58	205	100	84	41	20	11	20	13
18	31	80	78	57	394	132	84	40	18	12	26	10
19	37	70	75	60	656	326	81	52	17	11	28	8.0
20	38	63	74	67	539	204	94	65	15	11	23	7.0
21	35	61	70	88	316	146	184	50	14	11	18	6.4
22	33	59	68	80	233	175	130	44	13	10	16	5.9
23	33	59	69	70	214	218	102	38	12	9.5	15	5.6
24	33	87	74	67	176	161	100	35	11	9.1	14	5.2
25	45	92	83	64	152	137	84	32	11	9.3	12	5.1
26	55	74	75	63	140	125	73	37	26	9.1	11	4.7
27	45	88	70	62	130	115	68	141	35	9.0	10	4.3
28	123	100	71	84	125	109	63	130	21	11	9.1	3.8
29	164	82	71	80	---	105	59	67	16	11	8.4	3.5
30	103	72	70	69	---	275	59	51	13	12	16	3.7
31	90	---	67	65	---	546	---	43	---	13	16	---
TOTAL	1864	2108	2728	2083	10990	5213	4656	1698	845	549.0	496.7	387.3
MEAN	60.1	70.3	88.0	67.2	393	168	155	54.8	28.2	17.7	16.0	12.9
MAX	312	148	329	88	3290	546	607	141	52	67	32	66
MIN	28	49	60	57	65	98	59	32	11	9.0	8.4	3.5
CFSM	.47	.55	.69	.53	3.09	1.32	1.22	.43	.22	.14	.13	.10
IN.	.55	.62	.80	.61	3.22	1.53	1.36	.50	.25	.16	.15	.11

CAL YR 1980 TOTAL 65526.6 MEAN 179 MAX 2800 MIN 9.6 CFSM 1.41 IN 19.19
WTR YR 1981 TOTAL 33618.0 MEAN 92.1 MAX 3290 MIN 3.5 CFSM .73 IN 9.85

02338660 NEW RIVER NEAR CORINTH, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: October 1978 to current year.
INSTRUMENTATION.—Water-temperature recorder since October 1978.
REMARKS.—No daily water-temperature record Feb. 16 to Mar. 5.
EXTREMES FOR PERIOD OF DAILY RECORDS.—
WATER TEMPERATURES: Maximum, 32.5°C July 16, 1981; minimum, 0.0°C Jan. 12-14, 18, 1981.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum, 32.5°C July 16; minimum, 0.0°C Jan. 12-14, 18.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.0	17.5	13.0	11.0	7.5	5.5	6.0	4.0	7.5	5.5	14.0	13.0
2	20.0	18.5	13.0	11.0	9.0	6.0	7.0	5.0	7.5	5.5	14.5	12.5
3	20.0	17.5	14.5	12.5	9.0	7.5	5.5	3.5	5.5	3.0	13.0	10.5
4	18.0	15.5	16.0	14.5	7.5	5.5	5.0	3.5	3.5	2.0	11.5	11.0
5	17.5	15.0	15.0	13.0	7.0	4.5	3.5	2.0	3.5	2.0	13.5	11.0
6	16.5	14.0	12.5	10.5	8.0	5.5	3.0	1.5	4.5	3.5	12.5	10.5
7	16.0	13.0	12.5	9.5	9.0	7.0	4.5	3.0	5.5	4.5	11.5	9.5
8	17.0	13.5	14.0	11.0	10.0	8.0	4.0	2.5	8.5	5.5	11.5	9.0
9	18.0	14.5	14.5	12.0	12.0	10.0	4.0	2.0	7.0	5.0	11.5	9.0
10	18.5	15.5	16.0	13.5	12.5	11.0	4.0	2.5	8.0	6.5	11.0	8.5
11	20.0	16.5	14.5	12.5	11.0	8.5	2.5	.5	8.0	6.5	11.5	9.0
12	17.5	14.5	12.5	10.0	8.5	6.5	1.5	.0	6.5	3.0	12.0	9.0
13	16.0	12.5	11.0	9.0	7.5	6.0	1.0	.0	4.0	2.5	11.5	9.5
14	15.5	12.0	12.5	10.0	7.5	6.5	2.5	.0	7.0	4.0	12.0	9.0
15	15.0	12.0	14.5	13.0	7.0	5.0	4.0	2.0	8.5	6.0	12.0	9.0
16	16.5	13.5	15.0	14.5	8.5	7.0	4.0	2.0	11.0	8.5	14.0	11.5
17	18.0	15.5	15.0	12.5	8.5	7.0	3.0	1.0	11.5	11.0	12.5	9.5
18	19.5	17.5	12.5	10.0	6.5	5.0	3.0	.0	13.5	11.5	12.0	11.5
19	20.5	19.0	10.0	8.0	7.0	5.0	4.5	1.0	14.5	13.5	11.5	9.0
20	18.5	15.5	8.5	7.0	7.0	6.0	5.0	4.0	13.5	12.0	11.5	8.5
21	16.0	14.0	8.0	6.0	6.0	4.5	5.5	5.0	12.5	10.0	11.0	8.5
22	17.0	14.0	7.5	6.0	4.5	3.5	5.5	5.5	13.0	11.5	11.0	10.0
23	15.5	14.5	10.0	7.5	6.0	4.0	7.0	5.0	13.0	11.5	10.0	9.0
24	15.0	14.5	11.5	10.0	8.0	6.0	6.0	4.0	11.5	9.0	12.0	8.0
25	15.5	12.5	11.5	10.5	7.5	3.5	6.5	4.0	11.0	8.5	13.0	9.5
26	12.5	10.5	10.5	9.0	3.5	3.0	7.5	5.0	12.0	9.0	14.0	10.5
27	13.5	11.0	8.5	8.0	3.5	2.5	9.5	7.0	13.0	10.5	15.5	11.5
28	14.5	13.5	8.0	6.5	5.5	2.5	9.5	8.0	13.5	11.0	16.0	12.5
29	15.0	14.5	7.0	5.5	8.5	5.5	8.0	6.0	---	---	17.5	15.0
30	14.5	13.5	7.0	5.0	8.5	6.5	7.0	6.0	---	---	19.5	16.0
31	14.0	13.0	---	---	6.5	5.0	7.0	5.0	---	---	19.5	15.5
MONTH	20.5	10.5	16.0	5.0	12.5	2.5	9.5	.0	14.5	2.0	19.5	8.0

02338660 NEW RIVER NEAR CORINTH, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	19.5	17.0	21.0	18.0	25.0	22.0	25.0	22.0	23.0	22.0	25.5	23.0
2	18.5	14.0	19.0	16.0	25.0	22.0	23.0	21.5	25.0	22.0	27.5	23.0
3	18.5	15.0	18.0	15.0	25.0	22.5	23.5	21.5	28.0	22.0	27.0	23.0
4	19.0	16.5	19.5	15.0	27.0	23.0	25.5	22.0	29.5	23.0	26.5	23.0
5	19.0	17.5	20.5	16.5	27.0	23.5	25.5	23.0	30.5	24.0	24.5	23.0
6	17.5	14.5	19.5	18.5	27.0	24.0	25.0	23.0	28.5	24.5	25.5	23.0
7	17.5	13.5	19.0	17.5	26.0	23.5	26.5	23.5	28.5	24.5	27.0	22.5
8	19.0	16.0	20.0	17.0	27.0	24.0	28.5	24.0	27.5	24.5	26.5	23.0
9	19.5	17.5	19.0	16.0	28.0	24.5	29.0	25.0	28.5	23.5	26.0	21.0
10	20.5	17.5	18.5	17.0	29.0	24.5	30.0	25.0	26.5	24.0	24.5	19.5
11	21.0	18.5	18.0	15.5	28.5	25.0	31.0	25.5	29.5	23.0	25.5	19.5
12	21.5	18.5	18.0	14.5	27.0	23.5	31.5	25.5	27.0	23.0	26.0	20.0
13	21.0	18.5	18.5	14.5	28.0	24.0	31.5	25.5	26.5	23.0	27.0	20.5
14	22.0	19.0	19.0	15.5	28.5	24.0	32.0	25.0	28.0	23.5	26.0	21.0
15	21.5	19.5	20.0	17.0	29.5	24.0	31.5	25.5	29.5	23.5	23.5	21.5
16	20.5	18.5	17.5	15.0	29.5	24.5	32.5	25.5	30.0	24.0	25.5	21.5
17	19.5	17.5	19.5	15.5	29.5	24.5	32.0	25.5	28.0	24.5	23.5	19.0
18	20.5	18.0	21.5	16.5	30.0	24.5	31.5	25.0	25.0	22.5	21.5	16.5
19	21.5	19.0	21.0	19.0	29.5	23.5	30.5	25.0	24.0	22.0	20.0	14.0
20	20.5	19.0	20.0	18.5	29.5	23.5	31.0	25.0	24.5	22.0	20.0	14.0
21	19.0	17.0	21.0	17.5	31.0	24.5	31.0	25.0	23.0	22.0	21.0	14.5
22	18.0	16.0	21.0	16.5	30.5	24.5	30.5	24.5	26.0	21.5	21.5	15.0
23	20.0	18.0	21.0	17.0	31.5	24.5	30.5	23.0	25.0	22.0	22.5	16.5
24	20.0	18.5	23.0	18.0	30.5	24.0	31.0	23.5	26.5	21.0	22.0	16.5
25	18.5	16.0	23.0	19.0	31.0	24.0	28.5	24.5	27.5	21.5	22.5	16.5
26	19.0	15.5	21.0	19.5	29.0	24.5	31.0	24.0	27.5	22.0	22.0	16.5
27	20.5	16.5	20.5	19.5	26.5	22.5	29.0	24.5	26.0	21.0	22.0	16.5
28	21.0	17.5	21.5	19.0	26.5	23.0	31.0	24.5	27.0	21.0	22.5	17.5
29	20.0	18.0	22.0	19.0	28.5	22.5	30.0	25.0	25.0	22.0	21.5	16.5
30	22.0	19.0	24.5	20.5	27.5	21.5	28.0	24.5	26.0	22.5	21.5	16.5
31	---	---	25.0	22.0	---	---	24.0	22.0	27.0	22.5	---	---
MONTH	22.0	13.5	25.0	14.5	31.5	21.5	32.5	21.5	30.5	21.0	27.5	14.0

02338720 CHATTAHOOCHEE RIVER NEAR LA GRANGE, GA.

LOCATION.--Lat 33°04'42", long 85°06'39", Troup County, Hydrologic Unit 03130002, at La Grange waterworks intake, 1.2 mi (1.9 km) upstream from Yellowjacket Creek, and 5.3 mi (8.5 km) northwest of La Grange.

DRAINAGE AREA.--3,010 mi2 (7,800 km2), approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 08...	0915	6.4	6.8	13.0	18.0	8.6
NOV 05...	1100	7.0	7.1	15.5	16.5	8.8
DEC 10...	1330	6.7	7.0	10.5	12.0	10.5
JAN 06...	1115	6.9	7.2	5.0	7.0	9.1
FEB 03...	1100	6.9	7.0	.5	9.0	9.4
MAR 05...	0955	--	7.2	15.0	14.0	9.0
APR 06...	1130	6.7	6.9	17.5	18.5	7.0
MAY 05...	1030	8.9	8.4	25.0	23.5	11.4
JUN 03...	1100	8.2	8.5	30.0	27.0	8.8
JUL 09...	1015	8.7	8.0	31.0	29.0	8.9
AUG 05...	1130	8.6	9.3	33.5	28.0	8.8
SEP 02...	0945	--	8.6	32.0	27.0	9.8

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 08...	62	15	1.5	1300	75	12	12	.63	.080	--	.100	22
NOV 05...	76	12	2.3	1500	<30	17	20	.60	.220	--	.220	6.0
DEC 10...	89	7	2.0	430	40	18	5	1.0	.320	--	.240	3.0
JAN 06...	90	10	1.4	40	<30	18	--	1.0	.430	--	.270	2.0
FEB 03...	105	8	1.4	230	<30	18	9	.97	.540	--	.270	1.7
MAR 05...	84	14	1.5	--	<30	19	13	.68	.330	--	.180	2.0
APR 06...	58	36	1.4	2300	<30	13	52	.45	.130	--	.140	2.8
MAY 05...	88	4	3.4	150	150	20	3	.64	<.020	--	.050	5.0
JUN 03...	90	10	3.4	270	<30	17	9	.60	.060	--	.080	3.0
JUL 09...	102	5	3.1	750	<30	20	8	.63	.030	--	.070	4.0
AUG 05...	101	8	7.1	210	<30	27	26	.35	<.020	1.20	.110	4.5
SEP 02...	72	4	3.3	430	<30	15	<1	.46	.090	.30	.080	7.0

02338840 YELLOWJACKET CREEK NEAR HOGANSVILLE, GA.

LOCATION.--Lat 33°08'22", long 84°58'31", Troup County, Hydrologic Unit 03130002, at bridge on Hammett Road, 0.7 mi (1.1 km) downstream of Flat Creek, 5.8 mi (9.3 km) southwest of Hogansville, and 6.9 mi (11.1 km) upstream of Beech Creek.
DRAINAGE AREA.--91.0 mi^2 (236 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.
GAGE.--Water-stage recorder. Datum of gage is 640.93 ft (195.355 m) National Geodetic Vertical Datum of 1929.
REMARKS.--Records good. Some diurnal fluctuation at low flow.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,710 ft^3/s (76.7 m^3/s) Feb. 11, 1981, gage height, 9.60 ft (2.926 m); minimum daily discharge, 3.2 ft^3/s (0.09 m^3/s) Sept. 30, 1981.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft^3/s (34.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	2200	*2710	76.7	9.60	2.926

Minimum daily discharge, 3.2 ft^3/s (0.09 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	179	47	42	39	43	83	478	47	30	10	13	16
2	74	42	41	38	132	142	600	46	29	16	15	15
3	48	39	40	38	126	121	308	44	36	27	15	14
4	37	51	39	38	81	113	196	42	32	25	13	15
5	33	60	39	37	68	270	177	41	27	24	11	17
6	31	48	38	39	62	199	169	43	26	27	11	16
7	29	45	39	48	59	140	128	49	30	29	11	14
8	28	40	39	50	58	111	109	47	29	25	15	12
9	27	39	41	44	54	94	100	43	26	18	18	11
10	26	39	97	41	404	84	93	46	23	15	16	9.8
11	25	37	113	39	2220	79	87	220	21	14	15	9.1
12	23	37	75	38	1410	74	81	136	21	12	14	8.5
13	22	36	60	38	495	71	75	71	23	10	13	8.2
14	23	36	54	38	334	69	70	56	22	9.6	13	7.8
15	23	44	50	38	204	66	67	46	20	8.8	12	8.7
16	23	53	48	38	159	71	63	41	17	7.8	11	9.3
17	24	47	46	37	160	67	62	38	16	8.9	110	8.2
18	25	44	43	37	351	87	62	36	15	8.6	54	6.7
19	27	41	41	37	521	157	60	44	14	8.5	31	5.6
20	28	39	40	42	400	111	79	48	13	8.4	24	5.3
21	27	38	39	53	237	85	142	41	12	9.1	20	5.3
22	26	38	38	50	182	119	100	36	11	7.9	18	5.0
23	26	39	38	46	160	151	82	32	10	6.9	16	4.7
24	26	59	43	43	130	113	79	29	9.5	6.5	15	4.4
25	33	59	48	42	108	92	70	28	9.2	6.3	14	4.2
26	36	50	44	41	96	82	61	32	24	5.9	12	4.0
27	32	54	41	41	88	77	56	148	18	14	11	3.8
28	73	57	41	48	82	72	52	118	16	15	11	3.5
29	83	51	41	48	---	69	50	59	15	13	10	3.4
30	62	45	41	44	---	306	50	44	11	14	24	3.2
31	56	---	40	42	---	433	---	35	---	16	20	---
TOTAL	1235	1354	1479	1292	8424	3808	3806	1786	605.7	427.2	606	258.7
MEAN	39.8	45.1	47.7	41.7	301	123	127	57.6	20.2	13.8	19.5	8.62
MAX	179	60	113	53	2220	433	600	220	36	29	110	17
MIN	22	36	38	37	43	66	50	28	9.2	5.9	10	3.2
CFSM	.44	.50	.52	.46	3.31	1.35	1.40	.63	.22	.15	.21	.10
IN.	.50	.55	.60	.53	3.44	1.56	1.56	.73	.25	.17	.25	.11

CAL YR 1980 TOTAL 44274.0 MEAN 121 MAX 1480 MIN 11 CFSM 1.33 IN 18.10
WTR YR 1981 TOTAL 25081.6 MEAN 68.7 MAX 2220 MIN 3.2 CFSM .76 IN 10.25

02338840 YELLOWJACKET CREEK NEAR HOGANSVILLE, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: November 1978 to current year.
INSTRUMENTATION.—Water-temperature recorder since November 1978.
REMARKS.—No daily water-temperature record Feb. 10-14, Mar. 7-9, and June 1-4.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum, 37.0°C July 17, 26, 1981; minimum, 0.0°C Jan. 12, 13, 18, 1981.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum, 37.0°C July 17, 26; minimum, 0.0°C Jan. 12, 13, 18.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.0	18.0	15.0	10.5	9.5	5.0	8.0	3.5	9.5	5.5	---	---
2	22.0	18.5	15.5	10.5	11.5	6.5	8.0	5.0	9.0	5.5	---	---
3	21.5	17.5	16.5	12.5	10.5	7.0	7.0	3.0	6.0	3.0	---	---
4	20.5	14.5	18.0	14.5	9.0	5.0	6.5	3.5	5.5	2.0	---	---
5	20.0	14.5	15.5	12.0	9.5	4.5	4.5	1.0	5.5	1.5	---	---
6	19.5	13.0	14.0	9.5	10.5	6.0	4.5	2.0	6.0	4.5	---	---
7	19.5	12.0	15.0	9.0	11.0	6.5	6.0	4.0	7.0	5.0	---	---
8	20.5	13.0	16.0	11.0	12.0	7.5	5.5	2.0	11.0	7.0	---	---
9	21.0	14.0	16.5	11.5	14.0	10.5	6.0	2.0	8.5	4.0	---	---
10	22.0	15.0	17.5	13.5	13.5	11.0	5.0	2.0	---	---	13.5	8.5
11	22.0	16.0	15.0	11.0	10.5	8.5	3.5	.5	---	---	14.0	8.5
12	20.0	13.0	14.0	9.0	9.5	6.5	2.5	.0	---	---	14.5	8.0
13	18.5	11.0	12.5	8.5	10.0	6.0	2.5	.0	---	---	12.0	8.5
14	18.5	10.5	14.5	10.0	9.0	6.0	5.0	.5	---	---	14.5	8.0
15	19.0	11.5	15.5	13.5	8.5	5.0	6.5	2.5	8.0	5.0	14.0	7.5
16	19.0	13.5	15.5	14.0	10.5	8.0	6.0	1.5	11.0	7.5	15.5	11.0
17	20.5	15.5	14.5	12.0	9.5	6.5	4.5	1.0	11.0	9.5	15.0	8.0
18	21.5	18.0	12.0	9.5	8.5	5.0	5.0	.0	12.5	10.5	12.5	10.5
19	21.5	18.5	11.0	7.5	8.5	5.5	6.0	1.0	13.5	12.0	13.0	8.5
20	19.0	15.0	10.5	6.5	8.0	6.5	6.0	4.5	13.5	10.5	14.0	7.5
21	18.5	13.0	10.5	5.5	6.5	5.0	6.0	5.5	12.5	8.5	13.0	8.0
22	19.5	14.0	9.0	6.0	5.0	4.0	6.0	5.5	12.0	10.0	11.0	10.0
23	16.5	14.5	11.0	8.5	8.0	4.5	8.5	5.0	12.5	9.5	10.0	9.0
24	15.5	14.5	12.5	11.0	9.0	7.0	8.5	3.5	12.0	7.5	14.0	7.5
25	16.5	12.5	12.5	9.5	7.0	4.0	8.5	3.5	11.0	6.5	14.5	8.0
26	14.5	9.5	10.0	9.0	4.5	3.0	9.5	4.5	12.0	7.5	16.5	9.0
27	16.5	11.0	9.5	8.5	5.5	2.5	10.5	7.0	12.5	8.5	17.5	10.0
28	15.0	14.0	8.5	7.0	7.0	2.5	11.0	7.5	12.5	9.5	18.0	11.0
29	15.5	14.5	9.0	5.5	10.5	7.0	10.0	5.0	---	---	18.5	13.5
30	14.5	13.5	9.0	4.5	9.0	6.5	8.5	5.5	---	---	19.0	14.5
31	16.0	12.5	---	---	8.0	4.5	8.5	4.5	---	---	19.5	15.0
MONTH	22.0	9.5	18.0	4.5	14.0	2.5	11.0	.0	13.5	1.5	19.5	7.5

02338840 YELLOWJACKET CREEK NEAR HOGANSVILLE, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.0	16.0	20.5	17.5	---	---	27.5	22.0	24.5	22.0	28.0	25.0
2	18.0	13.5	23.5	14.5	---	---	23.5	21.5	28.0	22.0	31.0	24.5
3	19.0	13.5	21.5	14.0	---	---	25.0	21.0	32.0	22.0	31.0	25.0
4	19.0	14.5	24.5	14.0	---	---	29.0	22.0	34.0	23.5	29.5	25.0
5	19.5	16.0	24.5	16.0	30.0	23.5	28.5	23.5	34.0	24.5	27.0	25.5
6	19.0	13.0	20.5	18.5	30.5	23.5	30.0	23.0	32.5	25.0	28.5	25.0
7	18.5	12.5	20.0	16.5	29.0	23.5	31.5	22.5	32.0	24.5	28.5	25.0
8	20.5	14.0	24.0	16.0	30.0	23.5	32.0	24.0	30.5	25.0	28.5	25.5
9	20.5	16.0	22.0	15.0	31.5	24.0	32.5	24.5	32.5	24.5	30.0	23.0
10	21.5	16.0	21.0	16.5	32.0	24.5	34.5	24.5	30.5	25.0	29.0	21.5
11	22.5	16.5	18.0	15.5	31.5	24.5	34.0	25.5	32.0	24.0	29.0	21.5
12	23.5	17.0	21.5	14.5	30.0	23.0	35.0	25.0	33.0	24.5	29.5	22.5
13	24.0	17.0	22.5	13.5	32.0	23.5	34.0	25.0	32.0	24.0	31.0	22.5
14	24.5	17.5	22.5	15.5	33.0	23.5	36.0	25.0	33.0	24.0	30.5	23.0
15	24.0	18.0	23.5	16.0	33.5	23.5	35.5	25.0	32.0	24.5	25.5	23.5
16	21.5	17.0	20.0	14.0	33.5	23.5	36.5	25.0	32.0	25.5	29.0	23.0
17	21.5	16.5	23.5	15.0	33.0	23.5	37.0	25.0	28.0	27.0	28.5	20.0
18	23.5	16.5	25.5	17.0	34.0	23.5	36.0	24.5	27.5	25.0	26.0	17.0
19	24.5	18.0	23.0	18.5	33.5	22.5	36.5	25.0	26.0	23.5	25.0	15.5
20	21.5	18.5	21.5	19.0	33.5	23.0	34.0	25.0	25.5	24.5	24.5	15.5
21	18.5	17.0	25.5	17.0	34.0	24.0	35.5	24.5	25.5	24.0	25.5	16.5
22	20.0	16.0	25.5	15.5	32.5	24.0	35.0	24.0	26.5	23.0	26.0	17.0
23	22.5	17.5	25.0	16.5	35.0	24.0	36.0	22.5	26.0	24.5	27.5	18.5
24	23.0	17.5	26.0	17.5	34.0	23.5	36.5	23.5	27.0	24.0	27.5	18.5
25	21.5	15.0	23.5	19.0	35.0	24.0	32.5	24.5	27.5	24.5	28.0	18.0
26	23.5	14.5	22.0	19.5	32.5	24.0	37.0	23.5	27.5	24.5	28.0	17.5
27	25.0	15.5	22.0	19.5	31.0	21.5	30.5	24.0	26.5	24.0	28.5	17.5
28	25.0	16.0	25.0	18.5	30.0	23.5	33.5	24.5	27.5	23.5	30.0	18.5
29	22.0	17.0	25.5	18.5	32.0	21.5	33.0	24.5	26.5	24.5	28.5	16.5
30	25.5	18.5	28.0	20.0	32.0	20.5	30.0	24.5	26.5	25.0	29.0	16.5
31	---	---	---	---	---	---	24.5	22.5	28.0	25.0	---	---
MONTH	25.5	12.5	28.0	13.5	35.0	20.5	37.0	21.0	34.0	22.0	31.0	15.5

02339225 WEHADKEE CREEK BELOW ROCK MILLS, ALA.

LOCATION.—Lat 33°07'20", long 85°14'57", Randolph County, Hydrologic Unit 03130002, on left bank 50 ft (15 m) downstream of bridge on county road, 0.7 mi (1.1 km) downstream from Little Wehadkee Creek, 2.1 mi (3.4 km) upstream from Guss Creek, and 3.5 mi (5.6 km) southeast of Rock Mills.
DRAINAGE AREA.—60.2 mi^2 (156 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1978 to current year.
GAGE.—Water-stage recorder. Datum of gage is 647.21 ft (197.270 m) National Geodetic Vertical Datum of 1929.
REMARKS.—Records good. Some diurnal fluctuation at low flow.
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 4,400 ft^3/s (125 m^3/s) Apr. 13, 1979, gage height, 12.45 ft (3.795 m); minimum daily discharge, 2.8 ft^3/s (0.08 m^3/s) Sept. 28-30, 1981.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	0515	2580	73.1	11.17	3.405
Mar. 30	1930	1250	35.4	9.12	2.780
May 27	0745	*2820	79.9	11.39	3.472

Minimum daily discharge, 2.8 ft^3/s (0.08 m^3/s) Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	41	44	35	33	66	549	44	56	61	15	11
2	58	37	43	34	128	100	309	44	52	107	14	14
3	41	35	41	34	77	71	180	41	56	47	16	11
4	33	40	39	34	57	77	143	40	48	69	14	8.2
5	30	38	39	33	51	192	200	38	44	44	12	8.0
6	28	34	39	33	49	105	163	40	44	54	11	7.9
7	27	34	38	48	48	85	127	45	45	70	13	7.5
8	25	34	37	41	46	75	113	40	41	43	13	6.7
9	24	34	38	37	44	68	105	36	39	32	14	5.9
10	23	34	97	36	460	64	98	36	36	28	22	5.6
11	23	33	75	36	1760	61	92	47	26	25	23	5.2
12	21	32	56	35	323	57	87	38	36	22	40	5.0
13	21	33	50	35	179	56	81	35	36	20	30	4.9
14	21	33	47	34	131	54	78	33	32	18	19	4.5
15	21	65	44	34	107	52	73	32	28	16	16	4.7
16	21	61	44	33	96	57	68	30	26	14	15	7.1
17	22	47	42	33	106	50	67	30	25	13	14	7.5
18	26	47	40	32	275	110	66	29	26	14	13	5.6
19	29	41	39	32	471	180	63	44	22	15	15	4.7
20	27	39	39	38	189	87	65	38	21	16	17	4.7
21	24	37	37	46	126	72	100	32	20	14	15	4.5
22	23	36	36	39	108	122	69	29	19	13	15	4.4
23	23	38	37	36	104	116	65	27	18	12	14	4.1
24	24	69	42	34	86	90	64	25	17	11	13	3.9
25	40	54	45	33	77	77	56	24	12	13	12	3.8
26	33	45	39	32	71	69	53	96	60	11	12	3.6
27	28	71	38	32	67	65	50	1390	10	11	11	3.5
28	121	63	37	37	64	61	48	176	10	11	10	2.8
29	66	51	37	33	---	59	47	94	12	13	9.8	2.8
30	56	47	37	32	---	641	48	72	12	13	10	2.8
31	48	---	35	33	---	327	---	60	---	18	10	---
TOTAL	1159	1303	1351	1094	5333	3366	3327	2785	929	868	477.8	175.9
MEAN	37.4	43.4	43.6	35.3	190	109	111	89.8	31.0	28.0	15.4	5.86
MAX	152	71	97	48	1760	641	549	1390	60	107	40	14
MIN	21	32	35	32	33	50	47	24	10	11	9.8	2.8
CFSM	.62	.72	.72	.59	3.16	1.81	1.84	1.49	.52	.47	.26	.10
IN.	.72	.81	.83	.68	3.30	2.08	2.06	1.72	.57	.54	.30	.11

CAL YR 1980 TOTAL 38595.0 MEAN 105 MAX 961 MIN 12 CFSM 1.74 IN 23.85
WTR YR 1981 TOTAL 22168.7 MEAN 60.7 MAX 1760 MIN 2.8 CFSM 1.01 IN 13.70

02339225 WEHADKEE CREEK BELOW ROCK MILLS, ALA.—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: December 1978 to current year.
INSTRUMENTATION.—Water-temperature recorder since December 1978.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum, 29.0°C July 12, 13, 1980; minimum, 0.0°C Jan. 11-14, 18, 1981.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum, 28.0°C July 16, 17; minimum, 0.0°C Jan. 11-14, 18.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.0	17.0	13.0	10.0	8.0	5.0	6.5	4.0	8.5	6.0	14.5	12.5
2	21.0	18.5	13.5	10.5	10.0	6.0	6.5	5.0	8.0	5.5	14.5	12.0
3	20.0	15.5	14.5	12.0	9.5	7.0	5.5	3.0	5.0	3.0	13.0	9.5
4	16.0	13.0	16.0	14.5	7.5	5.0	5.0	3.0	4.0	1.5	11.5	10.5
5	15.5	12.0	14.0	11.5	7.5	4.5	4.0	1.5	4.0	1.0	14.0	11.0
6	13.5	11.5	12.0	9.5	8.5	5.5	4.0	1.5	4.5	3.5	13.5	10.5
7	13.0	10.5	12.0	9.5	9.5	6.5	4.5	3.5	6.0	4.5	11.5	9.5
8	13.5	11.0	13.0	10.0	10.5	7.0	4.0	2.0	8.5	6.0	12.0	8.5
9	14.5	12.0	13.5	10.5	12.5	9.5	4.5	1.5	7.5	4.0	12.5	8.0
10	15.5	13.5	14.0	12.5	12.5	10.5	4.0	2.0	8.0	6.0	12.5	7.5
11	16.5	14.5	13.0	11.0	10.5	8.0	2.5	.0	8.5	5.0	13.0	8.5
12	15.5	13.0	11.0	9.0	8.5	6.0	1.0	.0	5.0	2.5	12.5	8.0
13	14.0	11.5	11.0	8.0	8.5	5.5	1.0	.0	4.5	3.0	11.5	8.5
14	13.5	11.0	12.5	9.5	7.5	5.0	3.0	.0	8.0	4.5	12.5	8.0
15	14.0	11.5	14.0	12.5	7.5	4.5	4.0	1.5	9.5	6.5	13.0	7.5
16	14.5	12.5	14.5	13.5	9.0	7.0	4.0	1.0	11.5	9.0	14.5	11.0
17	16.5	13.5	14.0	12.0	8.0	6.0	3.0	.5	12.0	11.0	13.5	8.5
18	18.0	16.5	12.0	9.5	7.0	4.5	3.0	.0	13.5	12.0	12.0	10.5
19	18.0	17.5	9.0	7.0	7.5	5.0	5.0	.5	14.0	13.0	12.0	8.5
20	17.5	14.5	8.5	6.0	7.0	5.5	5.0	4.0	13.0	11.0	12.5	8.0
21	14.5	13.0	8.0	5.0	6.0	4.5	5.5	5.0	12.5	9.5	12.0	8.0
22	15.0	13.5	8.0	5.5	4.5	4.0	6.0	5.5	12.0	11.0	11.0	10.0
23	15.0	14.0	10.0	7.5	7.0	4.0	7.0	5.0	12.5	10.0	10.0	8.5
24	15.0	14.5	11.5	10.0	8.5	7.0	6.5	3.5	11.5	8.0	12.5	7.5
25	14.0	12.5	11.0	9.5	7.0	4.0	7.0	3.5	11.5	7.5	13.5	8.5
26	12.5	9.5	10.0	9.0	4.0	3.0	8.0	4.5	13.0	8.0	15.0	9.5
27	14.0	11.0	9.0	8.0	4.0	2.5	9.5	6.5	13.5	9.5	16.0	10.5
28	14.0	13.0	8.0	6.5	6.5	2.5	9.5	7.5	14.0	10.0	16.5	11.5
29	14.5	14.0	7.5	5.0	9.0	6.5	8.5	5.0	---	---	17.5	13.5
30	14.0	13.0	7.5	4.5	8.5	6.5	7.5	5.0	---	---	18.0	15.0
31	13.5	12.0	---	---	7.0	4.5	7.0	5.0	---	---	18.0	14.0
MONTH	21.0	9.5	16.0	4.5	12.5	2.5	9.5	.0	14.0	1.0	18.0	7.5

02339225 WEHADKEE CREEK BELOW ROCK MILLS, ALA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.0	16.0	20.0	17.5	23.0	21.0	24.0	22.5	22.5	22.0	23.5	22.5
2	17.0	13.0	18.5	15.0	23.0	21.0	22.5	22.0	23.5	22.0	24.0	22.0
3	17.5	13.5	18.0	13.5	23.5	21.5	23.0	21.5	24.5	22.0	24.5	22.5
4	18.5	15.0	19.0	14.5	24.5	22.0	24.0	22.0	25.5	23.0	24.5	22.5
5	19.0	16.5	19.5	16.0	24.5	22.5	24.5	23.5	26.5	24.0	24.5	24.0
6	17.5	13.5	19.0	18.0	25.0	23.0	25.0	23.5	25.5	24.5	24.5	22.5
7	17.0	13.0	19.0	17.0	24.5	23.0	26.0	23.5	25.5	24.5	24.5	22.5
8	18.5	14.5	19.0	16.0	25.0	23.0	26.5	24.5	25.0	24.5	24.5	23.0
9	18.5	16.0	19.0	15.5	26.0	24.0	26.5	24.5	25.5	23.5	23.5	20.5
10	20.5	15.5	19.0	16.5	26.5	24.5	27.0	25.0	24.5	24.0	22.5	19.0
11	20.5	17.0	18.5	15.5	26.0	24.5	27.5	26.0	25.5	23.0	22.5	19.5
12	21.5	17.0	18.0	14.5	25.5	24.0	27.5	25.5	25.5	24.0	23.0	20.0
13	21.5	17.0	18.5	13.5	26.0	24.0	27.5	25.5	25.0	23.0	23.5	20.5
14	22.0	17.5	19.0	15.0	26.0	23.5	27.5	25.5	25.0	23.5	23.0	20.5
15	22.0	18.0	18.5	16.0	26.5	24.0	27.5	25.5	25.0	23.5	22.5	21.5
16	19.5	17.5	17.0	14.0	26.0	24.0	28.0	25.5	26.0	24.5	23.0	21.5
17	19.5	17.0	19.0	15.0	26.0	24.0	28.0	25.5	26.0	24.5	21.5	19.0
18	21.0	16.5	20.5	16.0	26.0	24.0	27.5	25.0	25.0	22.5	19.0	16.5
19	21.5	18.0	21.0	18.5	25.5	23.0	26.5	25.0	23.0	21.5	17.5	14.5
20	20.0	18.5	20.0	19.0	26.0	23.5	27.0	25.0	23.0	22.0	18.0	14.0
21	19.0	17.0	20.0	17.0	26.5	24.5	26.5	24.5	22.5	22.0	18.5	15.0
22	18.5	16.0	20.0	15.5	27.0	24.5	26.5	24.0	23.0	21.5	18.5	15.0
23	20.0	17.0	20.0	16.5	27.0	24.5	26.0	23.0	23.0	22.0	20.0	16.5
24	20.0	17.5	21.0	18.0	27.0	24.5	27.0	23.5	23.0	20.5	19.5	16.5
25	18.5	15.0	21.5	18.0	27.0	24.5	26.0	24.5	23.5	21.0	19.5	16.5
26	19.5	14.5	21.0	19.0	26.5	23.5	26.5	24.5	23.5	21.5	19.0	16.5
27	20.0	15.5	19.5	19.0	25.0	22.5	26.0	24.5	23.0	21.0	19.0	16.0
28	20.5	16.0	20.5	18.0	25.0	24.0	27.0	24.5	23.0	21.0	20.5	17.0
29	19.5	17.0	21.5	18.5	25.0	23.0	26.5	24.5	23.5	22.0	19.0	15.5
30	21.5	18.0	23.0	19.5	24.5	22.0	25.5	24.5	24.0	22.5	19.0	15.5
31	---	---	23.5	21.0	---	---	24.0	22.5	24.0	22.0	---	---
MONTH	22.0	13.0	23.5	13.5	27.0	21.0	28.0	21.5	26.5	20.5	24.5	14.0

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.

LOCATION.—Lat 32°53'10", long 85°10'56", Troup County, Hydrologic Unit 03130002, on right bank just downstream from Oseligee Creek at West Point, 1 mi (1.6 km) upstream from bridge on U.S. Highway 29, 2.5 mi (4.0 km) downstream from West Point Dam and at mile 198.9 (320.0 km).

DRAINAGE AREA.—3,550 mi^2 (9,190 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—July 1896 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at site 0.8 mi (1.3 km) downstream since 1899 are contained in reports of National Weather Service.

REVISED RECORDS.—WSP 682: 1920, drainage area. WSP 972: 1931-32. WSP 1504: 1912, 1916-17.

GAGE.—Water-stage recorder. Datum of gage is 551.67 ft (168.149 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 20, 1912, nonrecording gage at site 0.8 mi (1.3 km) downstream at datum 2.83 ft (0.863 m) lower. Oct. 20, 1912, to Jan. 25, 1925, nonrecording gage at site 500 ft (152 m) upstream at present datum.

REMARKS.—Records good. Flow regulated by Lake Sidney Lanier since January 1956 and by West Point Lake since October 1974. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400 and 02339400.)

AVERAGE DISCHARGE.—85 years, 5,645 ft^3/s (160 m^3/s), 21.59 in/yr (548 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 134,000 ft^3/s (3,790 m^3/s) Dec. 10, 1919, gage height, 30.0 ft (9.14 m) at site then in use; 29.25 ft (8.92 m) at present site, from floodmarks, from rating curve extended above 80,000 ft^3/s (2,270 m^3/s) on basis of computation of peak flow over Langdale Dam; minimum, 224 ft^3/s (6.34 m^3/s) Sept. 12, 1925, gage height, 1.64 ft (0.500 m).

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1827, that of Dec. 10, 1919. Flood in 1886 reached a stage of 25.6 ft (7.80 m) at former site and datum, from floodmark, by National Weather Service, discharge, 92,800 ft^3/s (2,620 m^3/s).

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 19,300 ft^3/s (547 m^3/s) Feb. 11, gage height, 10.73 ft (3.271 m); minimum daily, 740 ft^3/s (21.0 m^3/s) Sept. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2640	790	2750	882	890	1240	9560	881	8620	2100	790	4990
2	2550	776	2770	2870	4970	5620	10700	880	6770	2130	790	5520
3	2410	2790	2930	882	5580	5780	10600	891	6740	2120	5700	4250
4	1070	5190	2740	869	5810	11200	9390	2120	6820	836	5780	5020
5	1060	863	2710	7630	2100	8370	9130	931	6970	835	6950	1040
6	3740	2820	848	10800	3710	6000	7370	2090	883	5600	8420	1040
7	3660	813	840	3760	934	1330	6020	2100	886	5910	1200	1040
8	3750	825	3420	3810	889	1280	4320	2090	869	6240	784	6040
9	6840	825	3520	3750	2890	5600	3760	862	3940	5560	851	5760
10	3700	2720	3600	913	1400	3380	979	883	4020	5570	7030	4580
11	1050	2800	5030	870	10200	3750	947	2100	848	811	4040	6560
12	1050	2860	3630	3370	11100	3820	940	2140	847	803	3890	801
13	5030	2750	891	1950	9490	3710	3820	2110	844	7560	6950	765
14	5090	2810	873	858	9810	1010	2280	4380	847	5610	6910	6880
15	8270	848	3400	859	9500	893	2200	2100	2770	5620	4950	4010
16	5250	849	3440	2460	10000	899	2180	862	2770	5660	823	3940
17	5160	2760	3450	862	9920	3200	2190	858	2720	5660	7060	3780
18	1030	2780	3450	854	10200	3380	930	4690	2700	778	7010	4100
19	1030	2840	3460	2750	10300	3760	904	2110	2730	770	7100	748
20	5640	4510	894	4970	10000	3340	2180	2090	915	5720	7470	740
21	5680	1280	864	2830	1040	980	2180	2070	1520	5780	7150	3550
22	5220	1440	5570	935	1310	949	2200	2100	3240	5820	1170	3640
23	5260	1290	5330	888	9810	2440	2200	869	3220	5750	1150	3690
24	5200	2230	900	880	9960	2360	938	869	3320	5760	8030	3860
25	785	2270	874	880	9980	2540	908	3450	3280	790	6620	3750
26	789	4810	5210	3870	10100	925	895	3440	3260	780	8080	741
27	5070	905	905	3810	6570	916	2130	5000	845	5750	5950	740
28	5070	929	869	2460	1260	913	2150	5840	1150	5720	5910	3620
29	2670	898	4070	2440	---	915	2170	9550	3290	2350	1080	3680
30	5010	845	2200	2490	---	2320	2700	6700	2070	790	1080	3780
31	2260	---	2920	1530	---	2430	---	929	---	790	5700	---
TOTAL	113034	61116	84358	78982	179723	95250	108871	77985	89704	115973	146418	102655
MEAN	3646	2037	2721	2548	6419	3073	3629	2516	2990	3741	4723	3422
MAX	8270	5190	5570	10800	11100	11200	10700	9550	8620	7560	8420	6880
MIN	785	776	840	854	889	893	895	858	844	770	784	740

CAL YR 1980 TOTAL 2473144 MEAN 6757 MAX 23800 MIN 770 MEAN† 6387 CFSM† 1.80 IN† 24.42
WTR YR 1981 TOTAL 1254069 MEAN 3436 MAX 11200 MIN 740 MEAN† 3105 CFSM† 0.87 IN† 11.87

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER AND WEST POINT LAKE.

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.—Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.07	2.02	3.06	2.10	2.11	2.39	6.49	2.10	5.93	2.73	---	4.18
2	3.00	2.01	3.07	3.12	4.21	4.57	7.16	2.10	5.03	2.75	---	4.42
3	2.92	3.05	3.15	2.10	4.49	4.64	6.98	2.11	5.00	2.74	---	3.84
4	2.25	4.29	3.06	2.09	4.57	7.11	6.31	2.79	5.04	2.06	---	4.20
5	2.25	2.08	3.04	5.47	2.76	5.92	6.16	2.14	5.13	2.06	---	2.23
6	3.59	3.08	2.07	6.86	3.51	4.76	5.38	2.77	2.10	4.44	5.76	2.23
7	3.59	2.04	2.06	3.54	2.14	2.46	4.74	2.77	2.10	4.60	2.27	2.23
8	3.65	2.05	3.44	3.57	2.11	2.42	3.87	2.77	2.09	4.76	2.01	4.66
9	5.11	2.05	3.48	3.54	3.13	4.55	3.62	2.08	3.64	4.43	2.07	4.54
10	3.62	3.04	3.54	2.13	2.47	3.46	2.18	2.10	3.68	4.43	5.12	3.95
11	2.24	3.08	4.25	2.09	6.69	3.62	2.16	2.78	2.07	2.04	3.81	4.84
12	2.24	3.10	3.58	3.35	7.13	3.65	2.15	2.81	2.07	2.03	3.63	2.03
13	4.26	3.05	2.11	2.68	6.35	3.52	3.58	2.78	2.07	5.39	5.10	2.00
14	4.29	3.08	2.09	2.08	6.52	2.19	2.86	3.86	2.07	4.44	5.06	5.01
15	5.79	2.07	3.38	2.08	6.35	2.11	2.81	2.77	3.07	4.45	4.11	3.62
16	4.35	2.07	3.40	2.92	6.63	2.12	2.79	2.08	3.07	4.46	2.05	3.59
17	4.31	3.06	3.41	2.08	6.58	3.28	2.80	2.08	3.04	4.46	5.12	3.53
18	2.22	3.08	3.40	2.08	6.69	3.38	2.14	4.13	3.03	2.01	5.12	3.67
19	2.22	3.10	3.41	3.05	6.77	3.55	2.12	2.77	3.04	2.00	5.22	1.98
20	4.55	3.89	2.11	4.20	6.63	3.37	2.79	2.76	2.09	4.48	5.38	1.97
21	4.56	2.40	2.09	3.12	2.23	2.17	2.79	2.75	2.44	4.51	5.23	3.41
22	4.34	2.54	4.51	2.14	2.45	2.16	2.81	2.76	3.29	4.54	2.34	3.45
23	4.36	2.42	4.38	2.11	6.56	2.95	2.81	2.09	3.28	---	2.32	3.47
24	4.32	2.81	2.12	2.10	6.63	2.90	2.15	2.09	3.33	---	5.61	3.54
25	2.01	2.85	2.09	2.10	6.63	2.98	2.12	3.48	3.31	---	4.94	3.49
26	2.02	4.13	4.32	3.66	6.68	2.14	2.11	3.48	3.31	---	5.62	1.97
27	4.21	2.12	2.12	3.56	5.01	2.13	2.76	4.31	2.07	---	4.64	1.97
28	4.23	2.14	2.09	2.97	2.41	2.13	2.78	4.77	2.25	---	4.61	3.43
29	3.03	2.11	3.76	2.95	---	2.13	2.78	6.57	3.36	---	2.27	3.46
30	4.20	2.07	2.80	2.97	---	2.92	3.06	6.57	2.72	---	2.27	3.50
31	2.81	---	3.14	2.48	---	3.00	---	2.14	---	---	4.55	---
MEAN	3.54	2.70	3.05	2.94	4.87	3.25	3.51	3.02	3.16	---	---	3.35
MAX	5.79	4.29	4.51	6.86	7.13	7.11	7.16	6.57	5.93	---	---	5.01
MIN	2.01	2.01	2.06	2.08	2.11	2.11	2.11	2.08	2.07	---	---	1.97

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 08...	0830	11100	6.9	6.7	14.5	21.0	5.8
NOV 05...	1000	858	7.2	7.2	12.0	15.0	8.8
DEC 10...	1140	1900	--	7.2	10.0	12.5	9.7
JAN 06...	1015	16300	6.9	7.2	3.5	7.5	10.0
FEB 03...	0945	16000	7.0	7.1	-2.5	6.0	11.6
MAR 05...	0830	16100	6.6	6.9	14.0	11.0	10.1
APR 06...	1015	16000	7.1	7.1	19.0	15.0	8.2
MAY 05...	0915	880	6.9	7.1	25.5	19.0	6.3
JUN 03...	1000	13200	6.6	6.7	29.0	20.5	3.4
JUL 09...	0820	825	7.1	7.1	30.5	26.0	5.8
AUG 05...	1300	13900	7.0	7.0	35.5	27.0	4.2
SEP 02...	1115	1100	7.3	7.1	34.0	26.0	7.5

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 08...	67	7	1.5	<30	16	.56	.030	.030	230	110	2.0
NOV 05...	66	6	.9	90	20	.28	.100	<.020	820	100	3.0
DEC 10...	63	9	.7	230	20	.24	.040	<.020	780	120	2.0
JAN 06...	81	5	.9	40	15	.87	.120	.070	1280	100	2.0
FEB 03...	85	5	1.5	<30	16	.89	.020	.060	1560	110	2.0
MAR 05...	62	23	1.3	<30	13	.52	.160	.090	500	150	3.3
APR 06...	69	6	1.7	40	15	.48	.120	.040	380	80	1.0
MAY 05...	68	5	1.0	90	21	.30	.040	.020	325	85	7.0
JUN 03...	74	7	.9	<30	18	.32	.160	.040	330	375	1.0
JUL 09...	78	5	1.1	40	21	.11	.110	.030	720	220	3.5
AUG 05...	100	--	3.5	40	23	<.02	.360	.040	1780	670	3.5
SEP 02...	81	5	1.0	930	21	.35	.150	.020	340	125	7.0

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAY				
01...	1430	880	2	4.8
01...	1445	880	2	4.8
JUN				
09...	1145	858	2	5.0
09...	1200	858	2	5.0
JUL				
08...	0830	825	4	8.9
08...	0900	825	4	8.9
AUG				
19...	1000	1210	9	29
19...	1015	1210	8	26

DATE	TIME	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAY											
01...	1515	0	0	4	52	77	88	92	96	99	100
01...	1520	0	1	2	11	15	18	21	37	80	100
01...	1525	0	1	8	22	26	29	35	48	76	100

02339550 CHATTAHOOCHEE RIVER AT LANETT, ALA.

LOCATION.—Lat 32°51'48", long 85°11'04", Chambers County, Ala.-Harris County, Ga., Hydrologic Unit 03130002, at city of Lanett water intake, 0.5 mi (0.8 km) south of Lanett, and 2.4 mi (3.9 km) upstream of Long Cane Creek.
DRAINAGE AREA.—3,550 mi² (9,190 km²), approximately.
PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: December 1978 to current year.
INSTRUMENTATION.—Water-temperature recorder since December 1978.
REMARKS.—No daily water-temperature record collected Nov. 15 to Dec. 2, Dec. 8 to July 7.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum recorded, 31.0°C Aug. 9, 1980, July 26, 1981; minimum recorded, 4.5°C Feb. 2, 11, 18, 1979.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum recorded, 31.0°C July 26; minimum recorded, 10.5°C Dec. 3-6.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	24.5	23.0	18.0	16.0	---	---						
2	24.5	23.0	18.0	16.5	---	---						
3	24.0	22.5	18.5	17.0	12.5	10.5						
4	23.5	22.0	18.0	17.0	12.5	10.5						
5	23.0	21.5	17.5	16.0	12.5	10.5						
6	22.5	20.5	17.5	15.5	12.5	10.5						
7	23.0	20.5	17.5	15.5	12.5	11.0						
8	23.0	20.5	17.5	16.0	---	---						
9	22.5	20.5	18.0	16.0	---	---						
10	22.5	20.5	18.0	16.5	---	---						
11	22.5	20.5	17.5	16.0	---	---						
12	22.0	20.0	17.0	15.5	---	---						
13	22.0	19.5	16.5	15.0	---	---						
14	21.5	19.5	17.0	15.5	---	---						
15	21.0	19.0	---	---	---	---						
16	21.0	19.5	---	---	---	---						
17	21.0	20.0	---	---	---	---						
18	21.0	20.0	---	---	---	---						
19	21.0	20.5	---	---	---	---						
20	21.0	19.5	---	---	---	---						
21	20.5	19.0	---	---	---	---						
22	20.5	19.0	---	---	---	---						
23	20.0	19.0	---	---	---	---						
24	19.5	19.0	---	---	---	---						
25	19.0	18.0	---	---	---	---						
26	19.0	16.5	---	---	---	---						
27	19.0	17.0	---	---	---	---						
28	18.5	17.5	---	---	---	---						
29	18.5	17.0	---	---	---	---						
30	18.0	17.0	---	---	---	---						
31	18.0	16.5	---	---	---	---						
MONTH	24.5	16.5	18.5	15.0	12.5	10.5						

02339550 CHATTAHOOCHEE RIVER AT LANETT, ALA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1							---	---	27.5	26.5	26.5	25.5
2							---	---	28.5	26.5	27.0	25.0
3							---	---	28.0	26.0	26.0	25.0
4							---	---	27.5	25.0	26.5	25.0
5							---	---	27.5	25.5	27.5	25.0
6							---	---	27.0	26.0	27.5	25.5
7							---	---	28.5	26.5	27.5	25.0
8							27.0	24.0	28.5	26.5	27.0	25.5
9							26.5	24.0	29.5	26.5	27.0	25.0
10							27.5	23.5	27.5	26.0	27.5	24.5
11							29.0	23.5	27.5	24.0	27.5	25.0
12							29.0	27.0	28.0	26.0	27.5	25.0
13							28.5	24.5	27.5	25.0	28.0	26.0
14							27.5	24.5	27.5	26.0	27.5	25.5
15							27.5	24.5	27.5	26.5	26.5	25.0
16							28.0	24.0	29.5	26.5	26.5	25.0
17							28.0	24.5	28.0	27.0	26.0	24.0
18							30.0	24.5	27.5	26.0	25.5	23.0
19							30.5	28.5	27.5	25.5	24.5	22.5
20							29.5	25.5	27.0	26.0	24.5	22.5
21							28.0	24.5	27.0	25.5	24.5	22.5
22							28.5	25.5	27.0	25.0	24.5	22.0
23							28.0	25.5	26.5	25.5	25.0	22.5
24							28.5	25.5	26.5	25.0	25.0	22.5
25							30.5	25.5	26.5	25.5	25.0	22.5
26							31.0	28.5	26.5	25.5	24.5	22.5
27							29.5	27.0	26.5	25.0	25.0	23.0
28							29.0	26.0	26.5	25.0	25.0	23.0
29							28.5	26.0	27.0	25.5	25.0	22.5
30							30.0	26.5	28.0	25.5	25.0	22.5
31							28.0	27.0	27.0	25.5	---	---
MONTH							31.0	23.5	29.5	24.0	28.0	22.0

02339720 LONG CANE CREEK NEAR WEST POINT, GA.

LOCATION.—Lat 32°54'37", long 85°08'43", Troup County, Hydrologic Unit 03130002, at bridge on Webb Road 2.5 mi (4.0 km) northeast of West Point.
DRAINAGE AREA.—74.8 mi^2 (194 km^2), approximately.
PERIOD OF RECORD.—July 1974 to current year.
REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
08...	0745	16	6.8	7.1	9.0	13.5	3.8
NOV							
05...	0845	88	6.6	6.8	14.5	14.0	4.0
DEC							
10...	1045	105	6.4	6.9	10.0	14.0	5.2
JAN							
06...	0830	34	6.8	7.1	1.5	3.0	9.0
FEB							
03...	0915	160	6.3	6.6	-2.0	5.0	8.3
MAR							
05...	0910	205	6.4	6.9	15.0	12.0	6.2
APR							
06...	0915	195	6.7	6.7	16.5	15.5	4.6
MAY							
05...	0800	34	7.0	7.0	21.0	18.0	1.8
JUN							
03...	0830	30	7.0	7.1	25.0	24.0	1.4
JUL							
09...	0730	50	7.1	7.1	29.0	26.0	1.8
AUG							
05...	1230	41	7.0	7.2	36.0	26.0	2.2
SEP							
02...	1215	20	7.3	7.0	34.0	24.0	1.2

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
08...	570	8	6.4	4300	59	.22	2.00	3.40	20
NOV									
05...	220	40	8.4	23000	34	.23	.800	1.10	14
DEC									
10...	252	29	8.4	93000	35	.22	1.32	1.40	16
JAN									
06...	315	17	4.8	90	45	.50	1.46	1.75	11
FEB									
03...	143	21	3.2	2300	22	.31	.310	.450	7.0
MAR									
05...	148	50	4.4	2300	23	.20	.380	.700	10
APR									
06...	103	16	4.4	230	23	.16	.200	.320	5.8
MAY									
05...	345	11	6.8	230	53	.18	1.72	1.40	19
JUN									
03...	399	12	4.4	1500	64	.06	3.86	1.40	10
JUL									
09...	213	8	6.4	<30	49	.93	2.52	.850	8.0
AUG									
05...	481	5	4.6	<30	67	.06	3.14	2.25	13
SEP									
02...	535	10	6.8	430	74	.05	3.75	3.30	20

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.

LOCATION.—Lat 32°27'45", long 84°59'52", Muscogee County, Ga.-Russell County, Ala., Hydrologic Unit 03130003, on downstream side of center pier of Central of Georgia railway bridge at Columbus, 0.5 mi (0.8 km) downstream from Eagle and Phenix Dam, 1.2 mi (1.9 km) downstream from City Mills Dam, 2.6 mi (4.2 km) downstream from North Highlands Dam, 3.3 mi (5.3 km) downstream from Oliver Dam, 17.5 mi (28.2 km) downstream from Bartletts Ferry Dam, and at mile 159.9 (257.3 km).

DRAINAGE AREA.—4,670 mi^2 (12,100 km^2), approximately.

PERIOD OF RECORD.—August 1929 to current year. Records for December 1912, published in WSP 322, have been found to be unreliable and should not be used.

REVISED RECORDS.—WSP 1082: 1943(M). See also period of record.

GAGE.—Water-stage recorder. Datum of gage is 183.14 ft (55.821 m) National Geodetic Vertical Datum of 1929. Dec. 1-31, 1912, nonrecording gage at site 800 ft (243 m) upstream at datum 2.0 ft (0.61 m) higher, and Aug. 23, 1929, to Sept. 30, 1975, recording gage at present site, at datum 2.0 ft (0.61 m) higher. Oct. 1, 1963, to Sept. 30, 1966, water-stage recorder at Walter F. George Reservoir, and since Oct. 1, 1966, water-stage recorder at Alabama State Docks used as auxiliary gage for this station.

REMARKS.—Records good except those below 1,500 cfs, which are poor. Flow regulated by Lake Sidney Lanier since January 1956, West Point Lake since October 1974, and by Lake Harding since 1939. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, and 02341000.) Records of chemical analyses for the period February 1968 to May 1972 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.—52 years, 6,785 ft^3/s (192 m^3/s), 19.73 in/yr (501 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 145,000 ft^3/s (4,110 m^3/s) Feb. 26, 1961; maximum gage height, 47.8 ft (14.57 m) Feb. 25, 1961; minimum discharge, 294 ft^3/s (8.33 m^3/s) Oct. 23, Nov. 14, 1931; minimum daily, 480 ft^3/s (13.6 m^3/s) Oct. 31, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum discharge known since at least 1827, 198,000 ft^3/s (5,610 m^3/s) Mar. 15, 1929, computation of flow at North Highlands Dam before redevelopment; maximum stage known, 53.2 ft (16.22 m) Mar. 16, 1929.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 73,700 ft^3/s (2,090 m^3/s) Apr. 1; maximum gage height, 30.71 ft (9.360 m) Apr. 1; minimum daily, 1,130 ft^3/s (32.0 m^3/s) Jan. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2600	1440	4750	3120	1560	3240	45600	1840	5530	2740	2800	6770
2	3540	1430	4410	4400	3600	6100	36700	1270	6950	2810	1700	7140
3	3020	4380	4760	3650	4270	5020	17200	1290	6290	3040	5600	6630
4	1820	4820	4000	3250	4720	8080	13200	1840	5580	2260	5820	2650
5	1850	3330	3070	6570	2120	11600	11000	1450	3630	2330	5730	1880
6	3590	2830	1640	7180	2900	9510	11100	1620	1680	5040	6510	1740
7	3710	3120	1520	7150	1290	3270	9220	1680	1620	6070	4790	1800
8	3330	1880	2400	6750	1160	2370	6810	2780	1920	6490	3140	3860
9	6070	1450	2780	5160	2780	6490	3570	1180	3810	7210	1800	6010
10	4530	4230	6700	4620	9490	5270	2630	1240	2750	6490	6230	6090
11	2370	2050	4600	3090	33900	3810	1400	2130	2490	3060	7630	6660
12	1810	1640	3150	5100	30600	5550	1300	2400	1840	2500	7610	2020
13	4930	2390	1550	3490	17300	4570	4450	3350	1470	7120	6190	2040
14	5550	2880	1540	1780	10700	1250	3110	3360	1590	5670	5660	4210
15	6810	1690	3270	2030	12000	1280	3100	3430	2420	6350	5880	5000
16	7130	1880	3270	1580	10700	3140	1660	1350	3270	5120	4740	5850
17	6920	5000	4600	1140	11200	3660	1450	1440	2920	5070	6330	4750
18	2520	3400	4380	1290	12500	6220	1360	2580	3330	2120	6850	4590
19	2440	4170	3710	1130	13700	4350	1340	4920	2310	1920	6140	1610
20	5370	2850	2130	2170	13100	3980	2900	1640	1840	5530	7070	1730
21	5390	2620	1820	4520	9450	1660	2180	2200	1760	5830	7020	3410
22	5600	1310	5010	2020	5740	1740	3000	2080	2000	5850	3840	3240
23	5890	1670	5860	1140	7200	2550	4550	1440	2520	5300	2730	3360
24	5910	2260	3160	1340	9290	3510	3500	1500	4040	6150	6390	4270
25	3040	1990	2670	1480	10500	3870	1250	4170	3940	2150	6760	3970
26	3250	3370	6450	1570	9490	3100	1160	4090	3690	1680	7110	1810
27	5640	1980	1950	1490	9680	1760	1440	6550	2120	4910	7550	1760
28	5500	2680	1520	1400	3130	1670	1730	5770	1980	5120	6760	4410
29	4100	1670	3980	1570	---	1790	1540	9550	2970	5760	3840	3880
30	4850	1800	3220	1410	---	3660	4750	9540	3570	2440	1860	3590
31	4490	---	1970	1860	---	4170	---	8620	---	1720	6720	---
TOTAL	133570	78210	105840	94450	264070	128240	204200	98300	91830	135850	168800	116730
MEAN	4309	2607	3414	3047	9431	4137	6807	3171	3061	4382	5445	3891
MAX	7130	5000	6700	7180	33900	11600	45600	9550	6950	7210	7630	7140
MIN	1810	1310	1520	1130	1160	1250	1160	1180	1470	1680	1700	1610

CAL YR 1980 TOTAL 3093290 MEAN 8452 MAX 53900 MIN 1310 MEAN† 8054 CFSM† 1.72 IN† 23.41
WTR YR 1981 TOTAL 1620090 MEAN 4439 MAX 45600 MIN 1130 MEAN† 4100 CFSM† 0.88 IN† 11.92

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, AND LAKE HARDING.

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.—Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.32	3.38	4.45	3.32	2.31	5.69	22.16	5.93	6.70	4.28	3.51	6.08
2	3.86	3.44	4.39	4.06	3.42	6.79	25.93	5.84	7.27	4.24	3.23	6.30
3	3.54	4.86	4.43	3.78	4.08	6.19	17.55	5.95	7.21	4.09	5.20	6.15
4	2.70	5.02	3.92	3.64	4.63	7.53	12.05	6.14	7.05	3.61	5.31	4.16
5	2.74	4.38	3.54	5.48	2.83	9.46	10.66	5.92	6.40	3.74	5.20	3.78
6	3.77	4.00	2.40	6.25	3.21	8.31	10.18	5.92	5.78	5.14	5.52	3.80
7	3.78	4.06	2.40	5.97	2.30	5.40	9.33	5.91	5.81	5.64	4.55	3.83
8	3.47	3.35	3.08	6.07	2.33	5.25	8.23	6.21	5.94	5.80	3.54	4.60
9	5.01	3.31	3.33	5.16	3.36	7.09	6.90	5.82	6.37	6.18	3.14	5.52
10	4.12	4.74	5.35	4.95	7.43	6.60	6.28	5.97	5.98	5.89	5.42	5.53
11	2.76	3.60	4.54	4.15	20.38	5.70	5.65	6.07	5.84	4.08	6.16	5.94
12	2.48	3.17	3.77	5.37	20.77	6.40	5.79	6.04	5.52	3.89	6.32	3.53
13	4.38	3.38	2.41	4.49	14.32	6.19	6.84	6.19	5.36	6.36	5.54	3.58
14	4.73	3.57	2.48	3.64	10.48	4.79	6.47	6.22	5.47	5.51	5.22	4.69
15	5.37	2.86	3.66	3.75	10.48	4.99	6.44	6.05	5.72	6.09	5.31	4.96
16	5.59	3.05	3.48	3.34	9.66	5.71	6.06	5.31	5.88	5.35	4.60	5.38
17	5.58	4.67	4.21	2.85	9.49	5.87	5.98	5.42	5.65	5.25	5.68	4.78
18	2.90	3.90	4.06	3.09	10.32	6.81	5.88	5.75	5.70	3.72	5.89	4.65
19	2.86	4.23	3.80	3.05	11.09	6.14	5.99	6.39	5.11	3.76	5.58	3.03
20	4.71	3.52	2.57	3.33	10.67	5.90	6.50	5.26	4.84	5.51	6.03	3.17
21	4.66	3.24	2.44	4.52	9.07	5.05	6.14	5.25	4.89	5.67	5.86	4.10
22	4.82	2.38	4.34	3.20	7.33	5.41	6.33	5.09	5.02	5.60	4.39	3.87
23	4.95	2.69	4.79	2.63	7.86	5.96	6.90	4.89	4.88	5.39	3.86	3.87
24	5.02	3.18	3.59	2.56	8.44	6.41	6.78	4.98	5.52	5.78	5.82	4.28
25	3.31	2.91	2.91	2.75	9.32	6.56	5.89	5.87	5.30	3.79	5.96	4.08
26	3.45	3.40	5.27	2.84	8.46	6.46	6.00	5.92	5.09	3.76	6.01	2.75
27	4.91	2.48	2.74	2.64	8.46	6.08	6.14	7.11	4.32	5.30	6.22	2.80
28	5.08	2.76	2.41	2.42	5.62	6.09	6.17	6.59	4.31	5.31	5.65	4.32
29	4.46	2.04	4.11	2.40	---	6.37	6.02	8.14	4.69	5.49	4.33	3.82
30	4.77	2.16	3.62	2.11	---	7.17	7.03	8.36	4.86	3.69	3.34	3.61
31	4.67	---	2.60	2.22	---	7.34	---	7.70	---	3.11	5.96	---
MEAN	4.12	3.46	3.58	3.74	8.15	6.31	8.48	6.07	5.62	4.87	5.11	4.37
MAX	5.59	5.02	5.35	6.25	20.77	9.46	25.93	8.36	7.27	6.36	6.32	6.30
MIN	2.48	2.04	2.40	2.11	2.30	4.79	5.65	4.89	4.31	3.11	3.14	2.75

WTR YR 1981 MEAN 5.30 MAX 25.93 MIN 2.04

02341800 UPATOI CREEK NEAR COLUMBUS, GA.

LOCATION.—Lat 32°24'48", long 84°49'12", Muscogee-Chattahoochee County line, Hydrologic Unit 03130003, at downstream side of pier near left end of bridge on Red Arrow Road at Fort Benning, 2 mi (3.2 km) downstream from Randall Creek, 2 mi (3.2 km) upstream from Ochillee Creek, 8 mi (12.9 km) southeast of Columbus, and 12 mi (19 km) upstream from mouth.
DRAINAGE AREA.—342 mi^2 (886 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—April 1968 to current year.
GAGE.—Water-stage recorder. Altitude of gage is 230 ft (70 m), from topographic map.
REMARKS.—Records good.
AVERAGE DISCHARGE.—13 years, 493 ft^3/s (14.0 m^3/s), 19.58 in/yr (497 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 17,300 ft^3/s (490 m^3/s) Apr. 1, 1981, gage height, 21.06 ft (6.419 m); minimum, 99 ft^3/s (2.80 m^3/s) July 19, 1981.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 2,500 ft^3/s (70.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	0630	8470	240	15.12	4.609	Apr. 1	2300	*17300	490	21.06	6.419

Minimum discharge, 99 ft^3/s (2.80 m^3/s) July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	361	236	204	176	180	367	9620	264	175	169	131	163
2	310	213	199	175	248	381	10400	258	173	202	146	153
3	223	196	192	175	282	358	2260	240	174	151	145	153
4	191	192	188	175	238	352	1370	227	173	138	128	240
5	172	193	184	172	209	941	1160	219	170	130	119	269
6	164	186	185	172	203	781	1050	221	169	127	114	206
7	159	178	184	231	214	567	872	242	168	127	112	170
8	159	174	183	267	215	462	777	240	169	123	161	156
9	159	172	184	230	201	409	698	221	168	116	276	150
10	156	172	278	202	1210	381	640	210	167	116	196	145
11	156	170	402	190	7840	361	590	206	168	119	160	143
12	152	168	296	180	3540	341	545	200	207	115	164	142
13	148	166	236	178	1230	332	505	195	332	111	165	140
14	150	166	209	179	815	322	471	191	288	108	153	142
15	152	174	199	184	698	308	440	182	205	105	148	143
16	154	182	197	181	610	365	411	175	168	103	136	163
17	156	183	195	177	572	361	396	173	154	101	231	164
18	156	188	190	172	1140	341	384	171	147	101	204	148
19	166	188	188	174	1560	506	366	182	143	100	169	139
20	178	183	186	180	1020	426	355	204	141	114	153	136
21	172	180	182	210	726	360	497	193	139	117	147	133
22	166	179	178	202	595	471	473	175	136	113	147	131
23	164	182	180	190	558	730	421	173	134	108	147	127
24	186	313	186	182	495	538	488	171	133	106	144	125
25	192	356	188	180	448	435	456	168	140	107	139	123
26	186	277	182	179	420	378	372	173	136	109	140	120
27	176	275	180	178	399	345	324	365	133	109	136	118
28	237	283	181	194	379	324	295	410	130	106	134	116
29	296	248	184	201	---	308	276	275	128	105	133	114
30	285	218	184	190	---	488	274	208	126	120	158	112
31	261	---	180	184	---	710	---	182	---	167	193	---
TOTAL	5943	6191	6284	5860	26245	13749	37186	6714	4994	3743	4829	4484
MEAN	192	206	203	189	937	444	1240	217	166	121	156	149
MAX	361	356	402	267	7840	941	10400	410	332	202	276	269
MIN	148	166	178	172	180	308	274	168	126	100	112	112
CFSM	.56	.60	.59	.55	2.74	1.30	3.63	.64	.49	.35	.46	.44
IN.	.65	.67	.68	.64	2.85	1.50	4.04	.73	.54	.41	.53	.49

CAL YR 1980 TOTAL 177954 MEAN 486 MAX 4520 MIN 148 CFSM 1.42 IN 19.36
WTR YR 1981 TOTAL 126222 MEAN 346 MAX 10400 MIN 100 CFSM 1.01 IN 13.73

02341800 UPATOI CREEK NEAR COLUMBUS, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—November 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
10...	0915	154	18.5	12	5.0
NOV					
13...	0910	165	9.5	10	4.5
JAN					
16...	0945	180	4.0	12	5.8
FEB					
02...	1245	260	7.0	40	28
12...	1625	2420	6.0	371	2420
24...	1750	485	14.0	59	77
MAR					
17...	1205	369	11.5	26	26
APR					
02...	1350	9500	17.0	1030	26400
08...	1225	770	17.0	53	110
MAY					
27...	1900	441	22.5	72	86
JUN					
16...	1535	164	30.5	22	9.7
JUL					
17...	1000	102	27.0	8	2.2
28...	0915	107	27.0	8	2.3
AUG					
25...	1555	140	27.0	11	4.2
SEP					
17...	1000	167	23.0	7	3.2

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.

LOCATION.--Lat 31°15'33", long 85°06'37", Early County, Ga.-Houston County, Ala., Hydrologic Unit 03130004, at left end of George W. Andrews Lock and Dam, 1.3 mi (2.1 km) downstream from Omusee Creek, 2.3 mi (3.7 km) south of Columbia, Ala., and at mile 46.5 (74.8 km).

DRAINAGE AREA.--8,210 mi^2 (21,260 km^2), approximately.

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Gate-opening and water-stage recorders. Datum of headwater gage and tailwater gages is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair prior to 1979 water year and good thereafter. Flow regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Lake, and George W. Andrews Reservoir. (See "Lakes and Reservoirs in Apalachicola River Basin," stations 02334400, 02339400, 02341000, and 02343240. No adjustments made for George W. Andrews Reservoir's annual change in contents, which is insignificant.)

AVERAGE DISCHARGE.--6 years, 12,070 ft^3/s (342 m^3/s), 19.96 in/yr (507 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 131,000 ft^3/s (3,710 m^3/s), Jan. 27, 1978, maximum headwater gage height, 118.12 ft (36.003 m) Jan. 27, 1978, maximum tailwater gage height, 116.66 ft (35.558 m) Jan. 27, 1978; minimum daily discharge, 762 ft^3/s (21.6 m^3/s) June 17, 1979.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 1929, thought to be the highest since 1827, based on station on Chattahoochee River at Columbia, Ala., 2.4 mi (3.9 km) upstream.

EXTREMES FOR 1976 WATER YEAR.--Maximum discharge, 45,700 ft^3/s (1,290 m^3/s) Apr. 1, maximum headwater gage height, 103.12 ft (31.431 m) May 1, maximum tailwater gage height, 100.03 ft (30.489 m) Apr. 1; minimum daily discharge, 848 ft^3/s (24.0 m^3/s) Sept. 12.

EXTREMES FOR 1977 WATER YEAR.--Maximum discharge, 43,600 ft^3/s (1,230 m^3/s) Nov. 29, maximum headwater gage height, 103.00 ft (31.394 m) July 5, maximum tailwater gage height, 99.02 ft (30.181 m) Nov. 29; minimum daily discharge, 799 ft^3/s (22.6 m^3/s) July 24.

EXTREMES FOR 1978 WATER YEAR.--Maximum discharge, 131,000 ft^3/s (3,710 m^3/s) Jan. 27, maximum headwater gage height, 118.12 ft (36.003 m) Jan. 27, maximum tailwater gage height, 116.66 ft (35.558 m) Jan. 27; minimum daily discharge, 778 ft^3/s (22.0 m^3/s) Oct. 16.

EXTREMES FOR 1979 WATER YEAR.--Maximum discharge, 77,800 ft^3/s (2,200 m^3/s) Feb. 25, maximum headwater gage height, 106.74 ft (32.534 m) Feb. 25, maximum tailwater gage height, 105.09 ft (32.031 m) Feb. 25; minimum daily discharge, 762 ft^3/s (21.6 m^3/s) June 17.

EXTREMES FOR 1980 WATER YEAR.--Maximum discharge, 78,600 ft^3/s (2,230 m^3/s) Mar. 31, maximum headwater gage height, 107.58 ft (32.790 m) Mar. 31, maximum tailwater gage height, 106.02 ft (32.315 m) Mar. 31; minimum daily discharge, 851 ft^3/s (24.100 m^3/s) Sept. 28.

EXTREMES FOR 1981 WATER YEAR.--Maximum discharge, 72,600 ft^3/s (2,060 m^3/s), Apr. 3, maximum headwater gage height, 106.16 ft (32.358 m) Apr. 3, maximum tailwater gage height, 104.37 ft (31.812 m) Apr. 3; minimum daily discharge, 841 ft^3/s (23.817 m^3/s) Sept. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10700	1210	18300	22400	25000	11200	44500	11800	13100	13400	3520	8950
2	6600	1360	21400	21600	21600	14600	41600	15000	14600	13400	9250	9300
3	6980	11300	21200	20600	31000	15100	34400	13500	14800	13800	9590	7260
4	1280	10400	21000	7780	22500	13500	25300	13500	22600	13400	9130	4730
5	5010	11000	21300	19100	21800	13900	24400	13400	36400	13200	7430	1260
6	13700	10900	13500	21200	21500	2290	24700	13300	28600	13900	7710	8040
7	24400	10700	5660	13000	21000	1270	25000	12800	15800	13700	6750	8280
8	34500	16200	18300	15700	7300	8130	23800	4340	15400	12700	4610	7680
9	32900	7840	18900	22000	19100	9390	17000	8890	13700	13800	8900	5890
10	28800	17300	19900	20100	21300	13200	4000	13100	13300	12900	9170	8160
11	28500	19900	19600	7570	21700	18200	934	9510	13200	12800	7310	859
12	26600	19700	19300	18900	21200	19300	13500	10100	13200	13000	7980	848
13	18600	21100	2330	21600	19500	12100	14800	9510	13200	13000	7650	7580
14	20000	19300	1010	21400	3380	6960	14800	12000	13100	11900	6680	8720
15	20000	17600	9010	21200	1650	20000	15300	18000	13100	9250	1200	8750
16	20400	6990	11300	20300	11800	31300	15000	32600	13200	10300	7710	8510
17	21800	18700	13100	13500	13800	32300	2590	36200	13200	1810	8110	8650
18	28700	20600	18200	5660	14500	32100	1920	24800	11500	1700	8300	5760
19	25300	20500	17700	14600	14400	30000	11200	13400	6660	8170	7960	3090
20	15400	20600	1890	11200	14500	30600	13500	13400	6750	8920	8120	9120
21	15600	21200	2280	11400	2910	33500	13600	13200	11100	8850	7120	8920
22	16500	10900	13600	16100	4650	29800	13900	15900	10600	8680	3450	9060
23	12300	3070	12200	13000	19200	30000	11700	20800	11600	8650	8490	8970
24	11600	17000	11400	1370	21200	30100	7440	35100	13100	7170	8450	9270
25	6700	18800	11900	1390	20900	30100	1400	20800	12600	1350	8450	3810
26	6680	19700	10000	17000	20300	30200	7650	14600	8370	8840	9100	1280
27	12300	9270	1420	27300	20200	30700	8420	14100	5810	9880	9380	9280
28	13100	13600	1220	30300	4310	31300	8840	14100	9370	9380	7700	7590
29	11900	3380	15700	30400	1390	31000	9310	14200	8860	9170	3220	6350
30	10900	2370	15800	31300	---	26700	9770	14000	11000	9220	8480	6220
31	10800	---	16600	31000	---	30000	---	13700	---	8830	9190	---
TOTAL	518550	402490	405020	549970	463590	668840	460274	489650	407820	315070	230110	202187
MEAN	16730	13420	13070	17740	15990	21580	15340	15800	13590	10160	7423	6740
MAX	34500	21200	21400	31300	31000	33500	44500	36200	36400	13900	9590	9300
MIN	1280	1210	1010	1370	1390	1270	934	4340	5810	1350	1200	848

WTR YR 1976 TOTAL 5113571 MEAN 13970 MAX 44500 MIN 848 MEAN† 13540 CFSM† 1.65 IN† 22.39

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, LAKE HARDING, AND WALTER F. GEORGE LAKE.

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.—Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6080	7690	27700	4170	10700	11900	30400	3110	9840	7130	6210	8150
2	3890	8190	18600	1060	10100	11800	36500	9810	4640	1880	3660	7690
3	1160	8380	16400	16300	11000	11700	37000	12700	6110	1000	5910	1180
4	8760	7950	15600	12700	11300	18800	37000	19100	1100	4200	7130	1230
5	8880	7980	15700	19900	1820	30700	36000	21200	1110	7510	15100	8500
6	9250	6940	14200	20200	1460	31300	34600	21000	10500	7700	11700	8390
7	6020	1040	15700	21700	11900	31700	28700	2290	3140	7720	1210	9160
8	6560	6160	14000	14800	16100	30000	20300	1140	9840	7680	10000	8450
9	8780	6590	14200	2390	11600	29200	13300	6290	10600	2110	10400	8420
10	1630	6580	14200	19900	10900	21200	11900	6970	10600	1290	10600	1520
11	2820	6770	14200	31100	11500	21000	19200	6740	5620	7810	7560	1530
12	7040	6700	14400	31000	1870	14700	20100	6780	1190	8450	5110	7690
13	6860	6750	21900	30900	1670	29400	20100	7510	9090	8280	1010	8270
14	6940	2680	29800	25000	10600	19600	20400	6780	9200	8360	897	8410
15	6930	9160	29800	32300	11600	20400	20300	2310	9350	8300	9210	8330
16	895	9290	23900	31400	11300	21100	3600	9540	9550	1760	10200	9150
17	5460	10400	18900	29700	11400	20900	6450	9120	9480	937	9710	1980
18	9740	9500	10200	20200	11400	21400	14700	9060	1470	6190	6640	2110
19	8820	9690	5720	22100	1670	11500	16800	9230	979	7580	6800	8820
20	9730	10300	18900	17600	1650	5200	15300	9130	7390	6420	1950	8450
21	9870	2950	28700	16200	11000	19500	15500	4320	8390	6430	1520	8460
22	9570	9440	28600	2620	10900	32000	21800	2310	8410	6510	7830	8280
23	7920	10100	28200	1650	10800	31500	19000	10300	8280	1720	8120	8230
24	1210	9290	21300	10000	11800	30300	8870	10700	8500	799	8190	1100
25	8550	9610	4730	11400	11500	30300	19000	10900	1580	6210	8420	880
26	8280	11300	21400	11100	7360	30200	13100	11300	832	7540	8400	6660
27	8220	11700	29400	11000	2230	30300	12000	9160	6380	7600	1410	7160
28	7750	16100	28700	11200	12000	30200	19100	2840	6700	6560	1920	6960
29	7800	41400	28900	7020	---	30400	20100	3330	6850	5600	7940	6850
30	1080	40500	21200	1220	---	30300	2110	10400	7080	2140	7170	7020
31	1970	---	19900	10200	---	30800	---	9410	---	1210	7550	---
TOTAL	198465	311130	615050	498030	249130	739300	593230	264780	193801	164626	209477	189030
MEAN	6402	10370	19840	16070	8898	23850	19770	8541	6460	5311	6757	6301
MAX	9870	41400	29800	32300	16100	32000	37000	21200	10600	8450	15100	9160
MIN	895	1040	4730	1060	1460	5200	2110	1140	832	799	897	880

CAL YR 1976 TOTAL 4912156 MEAN 13420 MAX 44500 MIN 848 MEAN† 13280 CFSM† 1.62 IN† 21.96
WTR YR 1977 TOTAL 4226049 MEAN 11580 MAX 41400 MIN 799 MEAN† 11600 CFSM† 1.41 IN† 19.18

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, LAKE HARDING, AND WALTER F. GEORGE LAKE.

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.—Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1440	8330	30600	1640	31400	16900	3070	20500	10300	1230	29800	11900
2	1340	8470	14400	17100	32300	24400	1940	31200	10500	1240	16800	1130
3	6320	9210	13000	18700	33000	26700	7020	27900	2260	8500	17300	995
4	7640	26100	1250	18500	33300	18900	10100	38100	3820	10100	17700	11500
5	8020	26800	12800	19300	35000	2340	7750	31200	13200	7260	1810	11500
6	8000	32800	13400	19900	32300	19900	7600	29300	12600	6450	1230	11500
7	8040	30800	17200	12600	30300	22100	7360	26900	10300	6450	12200	11500
8	1550	30400	17600	4540	23300	37300	2230	30500	16800	1060	11700	12200
9	1080	30100	15800	18700	31200	42300	1850	24400	24800	1060	13000	1030
10	7040	30200	14500	20800	30500	37400	6330	37200	9450	8660	21300	1230
11	8030	29600	2690	18800	16000	30600	6880	36600	1300	9270	23500	9870
12	8030	13400	12300	19900	3000	26500	7000	29700	8380	9350	12700	12000
13	7930	1960	13300	20400	15600	21700	23100	29300	10800	9280	2470	11000
14	8060	17600	13600	12800	18600	29100	31800	18900	12600	9190	12400	11100
15	1860	20600	14400	8230	18500	28600	12700	18400	12800	1460	11900	11300
16	778	20900	13300	19300	19000	29200	2380	18500	12300	1000	15100	6270
17	7320	20200	1910	20400	21300	21600	11800	16500	2080	8110	15100	4600
18	9320	20800	2150	23900	5180	23300	18400	17600	1340	9390	15200	9980
19	8650	3280	10100	23900	2000	9120	31500	17700	8420	6470	6940	9970
20	8350	1710	10500	30700	7110	20500	30700	3350	8780	5190	1220	10200
21	8590	9880	10700	29400	7770	21800	23200	1850	8730	7280	11300	8220
22	1590	10200	10500	13600	7200	21900	10900	7560	8780	2040	11300	4000
23	879	11700	10400	20600	7750	22000	2090	6200	8950	913	11400	964
24	7300	10300	1370	24800	7390	22100	9640	6040	966	7710	11200	1380
25	8840	11600	1570	56800	6420	4840	11600	6810	897	8510	11600	8180
26	9110	9480	11400	112000	2330	3060	11600	5710	8380	8560	1070	9000
27	8700	1450	13300	129000	10400	13200	11300	1040	8670	9060	1110	8770
28	8440	10300	13100	114000	11700	14700	11300	962	9730	8480	11000	8790
29	1350	9370	14400	66300	---	15100	2540	9500	8930	1210	11800	8690
30	903	18800	14300	34200	---	15000	1290	10300	8600	1020	11600	1600
31	7610	---	2340	31100	---	14600	---	10300	---	13200	12000	---
TOTAL	182110	486340	348180	981910	499850	656760	326970	570022	265463	188703	364750	230369
MEAN	5875	16210	11230	31670	17850	21190	10900	18390	8849	6087	11770	7679
MAX	9320	32800	30600	129000	35000	42300	31800	38100	24800	13200	29800	12200
MIN	778	1450	1250	1640	2000	2340	1290	962	897	913	1070	964

CAL YR 1977 TOTAL 4118034 MEAN 11280 MAX 37000 MIN 778 MEAN† 11580 CFSM† 1.41 IN† 19.15
WTR YR 1978 TOTAL 5101427 MEAN 13980 MAX 129000 MIN 778 MEAN† 13750 CFSM† 1.67 IN† 22.73

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, LAKE HARDING, AND WALTER F. GEORGE LAKE.

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1430	4650	4000	989	16100	29900	1340	19700	15800	1330	7300	1210
2	8020	4220	986	13800	18300	29900	9440	19100	10200	10800	7450	1500
3	9260	4140	793	16200	2780	30100	14100	19000	1130	5340	8050	6040
4	9340	2280	4220	14600	1420	35700	26200	19500	12400	7480	1070	9940
5	9310	852	4120	14700	9220	47500	55100	13700	13000	7980	936	10000
6	9300	5870	3740	6080	18300	42700	64100	12400	14100	10000	7480	10100
7	1720	8120	3590	1570	31200	34900	43900	15500	14100	1800	9060	10200
8	867	5950	3830	10100	29800	29800	30000	14700	14100	1830	9190	1110
9	8410	5590	3070	9400	28500	29700	29200	18000	1730	8950	9120	834
10	7380	5600	3380	10200	19200	19900	29900	18700	1350	9860	9130	6990
11	7650	2690	7130	10300	7100	8970	28900	18900	9680	10300	1170	6670
12	9680	1120	8080	14000	17000	19800	28900	2550	10800	7900	962	9330
13	8650	3570	8470	2170	17400	20000	29400	3070	10400	2540	8440	10000
14	1980	7650	8220	1840	16300	20100	33700	20000	10500	1010	9560	9770
15	1060	6620	8060	7490	12500	19900	54200	18800	11200	1340	9420	1190
16	8250	5100	2330	8290	13300	20000	59500	19100	1340	5900	9730	1190
17	9520	5040	1690	10700	1990	19500	54100	18600	762	7250	9830	7740
18	9370	2390	5490	11100	1380	7550	39000	18700	9490	6730	1840	8450
19	9640	1000	7850	11000	7440	17800	28600	2040	10200	4570	7340	8290
20	9290	4170	8610	8740	10400	19400	28700	1230	10000	7000	10700	11500
21	1910	6030	8650	16700	18500	19800	28800	12300	10300	6620	10300	9940
22	995	5830	8170	28400	31300	8640	28900	12700	10400	995	9030	1450
23	7730	6030	2930	28600	33800	19900	28500	12600	1410	9400	9270	1190
24	5640	5990	1600	21000	58300	14200	19300	12800	1070	10400	9460	7870
25	6430	2500	2140	19700	74600	2850	22500	12800	7490	11300	1030	8270
26	6490	928	11800	19100	69400	11000	36700	1110	10300	10400	1260	9130
27	5490	3890	10600	13300	48800	14100	48800	1000	7530	10500	8920	10700
28	1180	6420	8070	4070	31200	14200	42800	6980	7350	5270	9870	17500
29	1720	6140	6790	13400	---	6270	28900	6890	7160	984	9580	18900
30	3020	6220	4180	15300	---	20000	28500	6930	952	7450	9930	9310
31	4720	---	2050	16700	---	3950	---	7200	---	7400	10100	---
TOTAL	185452	136600	164639	379539	645530	638030	1001980	386600	246244	200629	226528	226314
MEAN	5982	4553	5311	12240	23050	20580	33400	12470	8208	6472	7307	7544
MAX	9680	8120	11800	28600	74600	47500	64100	20000	15800	11300	10700	18900
MIN	867	852	793	989	1380	2850	1340	1000	762	984	936	834

CAL YR 1978 TOTAL 4571488 MEAN 12520 MAX 129000 MIN 793 MEAN† 11890 CFSM† 1.45 IN† 19.66
WTR YR 1979 TOTAL 4438085 MEAN 12160 MAX 74600 MIN 762 MEAN† 12880 CFSM† 1.57 IN† 21.30

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, LAKE HARDING, AND WALTER F. GEORGE LAKE.

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9800	9890	9970	8640	20400	13100	70800	13500	1220	13700	9090	8630
2	9740	9650	1070	8620	12700	13100	37400	13500	10000	13900	1500	10100
3	9560	1120	12000	8720	9380	16600	32100	13500	12100	10200	953	10100
4	9720	900	13900	8860	19500	20300	32900	6180	14200	9830	8770	8160
5	12100	11600	15300	1510	19800	19600	31300	12900	16300	2990	10000	8680
6	1920	12000	16200	1010	20100	19700	22300	13900	16100	4700	7540	1630
7	1070	12200	19300	7550	20100	19700	22300	14400	5110	7440	7760	855
8	7740	12500	12900	8680	20400	21800	30200	13800	1140	8020	9890	7900
9	9340	12200	1340	10000	3040	32800	31100	14500	7140	7830	3140	9560
10	9260	1210	8270	10400	1800	47300	29200	10700	7810	8750	1150	9570
11	9500	1400	12500	10800	13200	46400	21200	3280	7940	12500	8870	9530
12	10100	11000	13100	1730	15200	38900	30400	9170	8170	4240	11100	9710
13	1630	13800	13300	1220	14900	55300	30900	10100	7820	9110	11100	2020
14	1010	14600	17800	9800	14500	50800	42600	10200	1440	9790	13200	885
15	8570	14200	1940	10900	14600	44000	52100	10300	1140	7430	13800	5850
16	12200	14200	1390	10800	1860	35900	35000	10400	8100	6200	2650	8050
17	13900	11400	11300	14300	1290	34500	29200	14000	8320	7070	1420	8210
18	13600	4660	9350	17500	13000	38500	30000	20700	8710	6770	8980	6390
19	13400	15200	8310	20600	19100	39900	21000	20600	11200	1530	11000	6530
20	1620	15400	8730	7150	19900	36400	21200	27000	11000	949	10900	2480
21	1000	15300	8390	17200	17300	32900	21000	42100	2080	8350	11700	1570
22	9390	15500	1430	18900	19000	32700	19900	48400	1660	9180	10800	5010
23	9710	14700	1070	20000	1750	32400	19700	47000	8390	9370	2160	8140
24	9650	2050	9830	19800	1070	30200	14200	61100	9340	9490	1420	7580
25	9340	1520	2400	19200	16700	30300	13800	42300	14000	9280	8850	5850
26	9870	14400	9560	21100	19200	30000	17800	27800	15500	1420	9880	5390
27	960	16300	10600	4870	18600	29900	12000	22400	15600	1070	9880	2400
28	870	19200	10400	18200	18900	35400	27300	20800	13700	7160	10000	851
29	8910	19300	1640	20100	19100	46500	13800	20400	5200	9300	10200	4150
30	9940	20100	1050	19900	---	66700	14100	14100	13700	8020	2420	5830
31	9570	---	7720	20300	---	75800	---	9560	---	7520	1300	---
TOTAL	244990	337500	272060	378360	406390	1087400	826800	618590	264130	233109	231423	181611
MEAN	7903	11250	8776	12210	14010	35080	27560	19950	8804	7520	7465	6054
MAX	13900	20100	19300	21100	20400	75800	70800	61100	16300	13900	13800	10100
MIN	870	900	1050	1010	1070	13100	12000	3280	1140	949	953	851

CAL YR 1979 TOTAL 4805944 MEAN 13170 MAX 74600 MIN 762 MEAN† 13730 CFSM† 1.67 IN† 22.70
WTR YR 1980 TOTAL 5082363 MEAN 13890 MAX 75800 MIN 851 MEAN† 13040 CFSM† 1.59 IN† 21.56

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, LAKE HARDING, AND WALTER F. GEORGE LAKE.

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.—Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4490	1390	5400	4440	889	884	21900	1530	4810	6380	1880	6600
2	4820	1020	8590	3670	4180	11300	63400	882	7620	8030	903	6900
3	6800	5490	5860	971	4960	12000	69600	1130	8190	8250	5770	5040
4	2230	5970	2190	994	7730	16900	38800	4130	7790	2280	7110	5410
5	1030	6140	2530	10100	5550	25300	27700	5110	7720	976	7780	1320
6	3810	6240	972	15300	4630	13300	28000	4870	1530	5540	12100	920
7	6720	6260	907	5470	1030	1990	15100	3810	983	6610	8880	5850
8	6780	1850	4900	3700	1290	1530	13800	3660	6300	6760	2190	6450
9	6910	1140	6650	1480	4140	8450	13600	1410	7160	6640	1610	6480
10	6800	5160	6820	860	7190	9620	14000	2870	6830	6680	6050	6230
11	2140	6060	6750	1230	29900	8050	2050	5090	6820	2240	7180	8710
12	1080	6360	6500	7960	36400	7560	915	6750	6990	939	10500	1820
13	4320	6470	1840	4820	44600	7400	7820	6280	1350	7560	7660	1020
14	6440	6270	1060	1920	28800	2010	3720	5770	1310	6870	11400	9700
15	12300	2140	5110	5010	28300	893	4250	8020	5830	6590	10700	6510
16	6800	1220	6440	7270	22900	5610	4900	2250	6730	6750	2510	6810
17	6490	5810	6470	2150	28400	8510	5820	991	6640	6530	6420	6460
18	2150	6480	6680	1070	21000	8400	1670	9230	6730	1580	6880	6160
19	895	6280	6400	5190	29400	11300	2780	6330	6840	892	6790	1220
20	5390	6380	1630	6450	19700	7980	5800	5470	1580	5390	7070	841
21	6970	6400	1050	6620	15500	1220	7990	5520	899	6990	6980	4820
22	6480	2250	5520	6500	10400	2230	4000	5530	5660	6800	1350	5790
23	6480	909	6480	6470	17800	7830	5730	1850	6430	6960	939	5940
24	6480	5260	6570	2070	19400	7080	8300	1040	6710	6630	10200	5870
25	2410	6980	6910	1150	17000	5080	2100	5200	6580	2000	11000	5810
26	877	14500	6650	4480	15900	4750	948	7820	6760	957	9440	1260
27	4430	8280	1800	6520	16000	4670	4330	9940	1740	5310	7260	951
28	6740	9130	890	6830	2530	1020	5230	9330	934	8280	6790	9070
29	5970	2040	5080	6630	---	1040	5100	9600	5020	8730	1170	5700
30	6680	847	6790	6810	---	9830	9730	8400	6870	8840	896	5750
31	4150	---	6570	2370	---	10300	---	2670	---	5930	6940	---
TOTAL	156062	150726	148009	146505	445519	224037	399083	152483	157356	170914	194348	151412
MEAN	5034	5024	4774	4726	15910	7227	13300	4919	5245	5513	6269	5047
MAX	12300	14500	8590	15300	44600	25300	69600	9940	8190	8840	12100	9700
MIN	877	847	890	860	889	884	915	882	899	892	896	841

CAL YR 1980 TOTAL 4682610 MEAN 12790 MAX 75800 MIN 847 MEAN† 12270 CFSM† 1.49 IN† 20.29
WTR YR 1981 TOTAL 2496454 MEAN 6840 MAX 69600 MIN 841 MEAN† 6480 CFSM† 0.79 IN† 10.71

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, LAKE HARDING, AND WALTER F. GEORGE LAKE.

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.

LOCATION.—Lat 30°58'39", long 85°00'19", Seminole County, Ga.-Jackson County, Fla., Hydrologic Unit 03130004, at Herman E. Talmadge Bridge on State Highway 91, 2 mi (3 km) northwest of Steam Mill, and at mile 23.7 (38.1 km).

PERIOD OF RECORD.—August 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Reservoir (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, 02341000, 02343240.), and by George W. Andrews Reservoir.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
13...	1215	7.2	7.5	20.0	22.0	8.8
NOV						
18...	1225	--	7.5	12.5	18.0	8.2
DEC						
10...	1245	7.3	7.4	20.0	15.5	8.8
JAN						
13...	1300	--	7.4	6.0	8.0	10.7
FEB						
11...	1220	7.0	7.2	7.5	10.0	11.0
MAR						
10...	1240	6.9	7.3	17.0	15.0	10.3
APR						
14...	1130	--	7.3	27.0	22.5	7.1
MAY						
13...	1205	--	7.3	27.0	22.0	6.0
JUN						
03...	1220	7.1	7.2	31.5	27.0	6.5
JUL						
14...	1150	--	7.4	35.0	28.5	5.8
AUG						
11...	1210	7.2	7.4	33.0	28.0	4.9
SEP						
15...	1140	7.3	7.3	31.0	26.0	6.7

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT							
13...	100	10	5	--	1.6	430	33
NOV							
18...	95	20	6	--	1.4	40	21
DEC							
10...	96	20	5	--	2.1	230	25
JAN							
13...	104	20	8	--	1.9	430	23
FEB							
11...	83	200	152	--	2.0	2300	20
MAR							
10...	71	50	27	--	1.5	90	15
APR							
14...	85	30	10	--	2.0	<30	22
MAY							
13...	88	50	10	--	1.5	40	25
JUN							
03...	82	40	15	--	1.6	40	21
JUL							
14...	91	20	8	--	1.2	40	28
AUG							
11...	102	20	5	9	2.2	90	28
SEP							
15...	99	10	6	13	1.2	2300	30

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.—Continued.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT						
13...	9	.27	<.020	--	<.020	4.0
NOV						
18...	7	.26	<.020	--	.040	3.5
DEC						
10...	8	.36	<.020	--	<.020	4.0
JAN						
13...	8	.50	.020	--	.050	4.0
FEB						
11...	160	.43	.080	--	.160	6.3
MAR						
10...	32	.43	.050	--	.060	2.5
APR						
14...	9	.45	.050	--	.060	3.5
MAY						
13...	1	.30	<.020	--	.040	5.0
JUN						
03...	20	.16	<.020	--	.090	6.0
JUL						
14...	22	.16	.030	--	.040	4.4
AUG						
11...	11	.16	<.020	.43	.040	3.0
SEP						
15...	4	.16	.080	.50	.020	2.2

02344180 FLINT RIVER NEAR JONESBORO, GA.

LOCATION.—Lat 33°32'14", long 84°22'35", Clayton County, Hydrologic Unit 03130005, at bridge on State Highway 138, 0.8 mi (1.3 km) west of U.S. Highway 41, and 1.5 mi (2.4 km) northwest of Jonesboro, and at mile 338.1 (544.0 km).

DRAINAGE AREA.—39.1 mi^2 (62.9 km^2).

PERIOD OF RECORD.—July 1975 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 14...	0845	12	6.9	6.8	13.5	15.0	6.1
NOV 11...	0800	24	6.4	6.8	13.0	7.0	5.7
DEC 02...	1315	21	6.8	7.3	9.0	20.0	7.9
JAN 14...	0815	20	6.7	7.0	2.0	-1.5	9.3
FEB 10...	0845	26	6.8	7.0	7.0	7.0	6.9
MAR 10...	0830	28	7.0	7.1	10.0	5.5	6.0
APR 21...	0815	57	6.7	6.7	18.0	14.5	2.9
MAY 11...	0630	135	6.8	6.5	17.5	16.0	4.5
JUN 10...	0615	24	6.5	6.9	25.0	24.5	3.3
JUL 07...	1115	159	6.4	6.6	24.0	33.0	4.3
AUG 03...	1145	13	6.6	6.9	23.5	33.0	4.6
SEP 01...	0900	12	6.9	7.1	23.5	25.0	3.4

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 14...	228	12	3.0	23000	22	6	168	7.2	.910	1.17	3.0
NOV 11...	211	9	2.0	2300	32	11	152	4.4	.900	1.02	5.0
DEC 02...	93	4	2.0	<35	22	<1	64	.72	.260	.160	2.0
JAN 14...	251	10	2.6	230	40	6	176	1.3	1.29	.820	7.0
FEB 10...	200	12	2.4	150	28	8	144	2.1	1.02	.950	5.5
MAR 10...	176	23	6.0	9300	34	22	120	1.9	1.52	.800	3.0
APR 21...	124	52	11	93000	33	35	152	.30	.900	.400	15
MAY 11...	108	125	15	23000	26	176	270	.77	1.24	.730	15
JUN 10...	195	22	3.0	--	31	2	24	1.7	.520	.670	5.0
JUL 07...	89	80	4.5	43000	17	32	128	.72	.200	.370	8.0
AUG 03...	195	9	1.4	1500	33	7	156	3.2	.130	.930	4.5
SEP 01...	245	20	3.7	430	32	14	188	3.6	.600	1.18	7.0

02344190 FLINT RIVER NEAR FAYETTEVILLE, GA.

LOCATION.—Lat 33°29'13", long 84°23'44", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on State Highway 54, 200 ft (60 m) east of Thomas Road, 0.2 mi (0.3 km) upstream from Camp Creek, and 4.4 mi (7.1 km) northeast of Fayetteville, and at mile 333.7 (536.9 km).

DRAINAGE AREA.—49 mi^2 (79 km^2).

PERIOD OF RECORD.—July 1975 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 14...	1045	26	7.2	7.2	14.5	21.5	2.4
NOV 11...	0845	47	6.8	6.9	14.0	7.5	2.0
DEC 02...	1215	45	6.6	7.1	9.5	21.0	6.6
JAN 14...	0900	45	6.6	6.9	3.5	3.0	8.7
FEB 10...	0930	49	6.9	7.1	8.0	5.0	4.5
MAR 10...	0915	60	6.9	7.2	10.0	10.5	5.0
APR 21...	0915	185	7.0	6.8	18.0	14.5	2.1
MAY 11...	0715	60	7.1	6.9	18.0	16.0	3.0
JUN 10...	0715	62	6.5	6.8	24.5	26.0	2.9
JUL 07...	1155	260	6.7	6.7	24.0	32.0	4.1
AUG 03...	1230	39	6.6	7.1	24.0	33.0	4.2
SEP 01...	1000	24	7.0	7.2	23.5	24.0	4.0

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 14...	360	8	4.6	7500	78	2	226	1.2	8.20	3.50	16
NOV 11...	319	6	3.2	90	75	9	192	.22	6.80	2.12	12
DEC 02...	136	8	1.6	230	30	1	108	1.1	.200	.340	4.0
JAN 14...	263	10	.9	<30	40	10	192	3.1	1.92	2.65	9.0
FEB 10...	258	13	6.6	2300	52	10	212	1.0	2.90	2.52	11
MAR 10...	248	14	2.2	70	39	11	156	2.0	1.86	1.70	4.5
APR 21...	155	51	13	23000	37	50	184	.65	1.90	1.26	11
MAY 11...	284	11	3.2	9300	65	--	--	.60	3.90	1.60	8.0
JUN 10...	187	19	4.4	--	38	15	132	1.1	1.85	1.57	4.0
JUL 07...	140	60	11	2300	21	72	192	2.8	.820	1.01	10
AUG 03...	305	7	.7	<30	65	7	208	1.6	3.10	2.30	7.0
SEP 01...	221	15	1.2	210	36	5	162	1.9	.130	1.64	6.0

02344380 FLINT RIVER NEAR INMAN, GA.

LOCATION.—Lat 33°23'08", long 84°23'24", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on Ackert Road, 0.6 mi (1.0 km) downstream from Gay Creek, and 1.4 mi (2.2 km) east of State Highway 92 at Inman, and at mile 322.3 (518.6 km).

DRAINAGE AREA.—158 mi^2 (254 km^2).

PERIOD OF RECORD.—July 1975 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
14...	1130	46	7.1	7.0	13.5	19.0	5.8
NOV							
11...	0930	76	6.7	7.0	13.5	10.5	4.6
DEC							
02...	1130	90	6.6	7.0	7.5	18.0	7.9
JAN							
14...	1030	75	6.7	7.0	1.0	7.0	11.2
FEB							
10...	1030	107	--	7.1	6.5	6.0	8.8
MAR							
10...	1015	167	6.8	7.2	10.0	12.0	8.4
APR							
21...	1015	187	7.2	7.0	19.0	15.5	5.5
MAY							
11...	0900	174	6.9	6.7	17.0	14.5	7.4
JUN							
10...	0800	260	6.3	6.7	24.5	27.0	3.5
JUL							
07...	1245	116	7.0	7.1	25.0	32.5	4.3
AUG							
03...	1300	72	7.1	7.1	23.5	33.0	5.8
SEP							
01...	1100	48	7.3	7.3	23.5	24.5	5.6

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
14...	223	7	3.2	90	42	3	144	2.0	1.53	1.22	4.5
NOV											
11...	205	6	2.6	90	48	8	140	.75	2.00	.900	9.0
DEC											
02...	155	8	2.1	<30	29	1	104	1.4	.860	.520	4.0
JAN											
14...	173	10	1.0	110	30	3	132	2.0	.430	1.10	4.0
FEB											
10...	156	10	1.2	<30	28	6	116	1.2	.290	.550	5.0
MAR											
10...	133	14	1.8	90	24	7	88	1.0	.080	.490	2.0
APR											
21...	128	25	2.4	2300	33	24	142	.68	.150	.720	5.5
MAY											
11...	159	39	5.4	8400	30	50	172	1.2	.320	.690	7.0
JUN											
10...	93	28	2.2	--	19	15	108	.50	.060	.480	5.0
JUL											
07...	171	8	1.6	90	30	<1	120	2.0	.130	.890	6.6
AUG											
03...	225	6	.9	40	37	7	168	1.8	.080	.850	5.0
SEP											
01...	246	12	.5	90	42	<1	176	1.5	.140	1.48	5.0

02344400 FLINT RIVER ABOVE GRIFFIN, GA.

LOCATION.—Lat 33°18'33", long 84°23'36", Spalding-Fayette County line, Hydrologic Unit 03130005, at bridge on State Highway 92, 3.4 mi (5.5 km) upstream from Central of Georgia Railroad bridge, and 8.5 mi (13.7 km) northwest of Griffin, and at mile 313.2 (503.9 km).

DRAINAGE AREA.—194 mi^2 (502 km^2).

PERIOD OF RECORD.—July 1975 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 14...	1230	49	7.0	6.9	14.0	21.0	5.9
NOV 11...	1015	78	6.7	7.0	13.0	12.0	5.3
DEC 02...	1045	99	--	7.2	6.5	16.0	9.6
JAN 14...	1115	78	6.7	7.0	1.0	8.5	11.5
FEB 10...	1115	122	6.8	7.1	6.0	7.5	9.2
MAR 10...	1045	170	--	7.2	10.0	12.5	8.4
APR 21...	1100	158	7.2	7.0	19.0	17.0	5.4
MAY 11...	1015	135	6.9	6.7	17.5	14.5	6.1
JUN 10...	0900	630	6.3	6.5	24.0	28.5	3.9
JUL 07...	1320	90	7.2	7.1	35.0	32.5	5.9
AUG 03...	1340	45	7.2	7.0	23.5	32.0	8.8
SEP 01...	1200	32	7.3	7.3	23.5	27.5	5.3

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT 14...	202	7	14	2.0	2300	230	33
NOV 11...	178	7	38	1.2	430	230	39
DEC 02...	265	8	22	2.4	750	70	51
JAN 14...	161	9	14	<.1	9300	430	29
FEB 10...	144	10	16	1.4	4300	40	26
MAR 10...	118	14	11	1.0	430	230	23
APR 21...	140	12	14	1.6	4300	750	35
MAY 11...	166	16	16	2.8	9300	2300	32
JUN 10...	88	31	23	1.4	--	--	18
JUL 07...	178	8	17	1.0	2300	90	34
AUG 03...	216	8	13	.8	9300	230	35
SEP 01...	203	14	13	.5	3300	540	40

02344400 FLINT RIVER ABOVE GRIFFIN, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 14...	<1	68	2.5	.350	1.10	1.05	8.0
NOV 11...	9	124	1.0	1.08	1.60	.800	5.5
DEC 02...	<1	4	1.8	4.00	5.50	1.96	7.0
JAN 14...	1	120	1.7	.230	.60	.870	5.0
FEB 10...	4	108	1.2	.200	.60	.390	6.0
MAR 10...	10	86	.78	.050	.41	.330	3.0
APR 21...	10	132	.92	.110	.53	.600	5.0
MAY 11...	17	140	1.8	.120	.60	.760	4.0
JUN 10...	13	108	.43	.070	--	.370	7.0
JUL 07...	<1	120	1.2	.050	.40	.920	7.3
AUG 03...	9	168	1.4	.060	.70	.680	5.5
SEP 01...	<1	150	.90	.100	.60	.800	5.0

02344500 FLINT RIVER NEAR GRIFFIN, GA.

LOCATION.—Lat 33°14'39", long 84°25'45", Spalding County, Hydrologic Unit 03130005, at downstream side of pier of bridge on State Highway 16, 1.5 mi (2.4 km) downstream from Shoal Creek, 5.5 mi (8.8 km) upstream from Line Creek, 10 mi (16 km) west of Griffin, and at mile 304.4 (489.8 km).

DRAINAGE AREA.—272 mi^2 (704 km^2).

PERIOD OF RECORD.—March 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

GAGE.—Water-stage recorder. Datum of gage is 711.44 ft (216.847 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Aug. 25, 1938, nonrecording gage at present site at datum 3.00 ft (0.91 m) higher. Aug. 25, 1938, to May 5, 1941, nonrecording gage, May 6, 1941, to Aug. 20, 1959, water-stage recorder, and Aug. 21, 1959 to Sept. 13, 1960, nonrecording gage, all at present site and datum.

REMARKS.—Records good. Some diurnal fluctuation at low flow. City of Griffin diverted an average of about 8 ft^3/s (0.23 m^3/s) for municipal supply at pumping plant 6 mi (9.7 km) above station. An average of about 1 ft^3/s (0.03 m^3/s) of the diversion was discharged as sewage effluent into tributaries of Towaliga River, and an average of about 3 ft^3/s (0.08 m^3/s) was returned as sewage effluent to Flint River about 49 mi (79 km) downstream. Records of chemical analyses for the water years 1968-69, 1971-72, are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.—44 years, 355 ft^3/s (10.1 m^3/s), 17.72 in/yr (450 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 13,200 ft^3/s (374 m^3/s) Nov. 27, 1948, gage height, 18.0 ft (5.49 m); minimum daily, 2.5 ft^3/s (0.071 m^3/s) Oct. 20, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 14 or 15, 1929, reached a stage of 17.9 ft (5.46 m), present datum, from floodmark located by local resident, discharge, 15,300 ft^3/s (433 m^3/s).

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 13	0100	*5320	134	12.82	3.908

Minimum daily discharge, 16 ft^3/s (0.45 m^3/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	175	125	115	141	272	944	108	124	39	46	74
2	397	170	119	114	186	312	1530	106	126	40	65	160
3	509	142	116	110	240	300	1150	101	186	56	69	131
4	328	123	112	109	318	302	943	100	182	64	65	236
5	171	122	112	108	377	430	546	93	173	87	54	244
6	121	121	115	105	241	456	381	87	137	78	41	147
7	98	147	115	120	189	554	374	97	130	72	45	178
8	85	132	114	127	176	462	415	97	174	96	58	168
9	82	111	113	140	167	305	294	99	223	138	49	103
10	79	105	192	142	294	257	248	99	378	118	63	98
11	76	99	286	129	3320	237	225	164	280	61	113	101
12	74	97	373	120	4300	227	211	193	146	52	94	73
13	70	94	537	114	4400	218	199	180	122	45	68	62
14	65	93	338	113	1950	211	182	159	175	38	70	58
15	61	100	204	112	881	206	175	125	232	32	58	52
16	60	123	169	111	530	205	167	110	161	27	56	55
17	63	146	154	111	396	199	160	115	93	28	106	64
18	68	203	144	110	524	215	157	125	71	25	90	116
19	74	201	134	110	968	360	153	105	63	25	101	165
20	78	152	132	111	1540	418	151	101	58	30	118	107
21	76	126	126	129	1750	491	182	110	58	33	88	64
22	73	116	122	145	1010	370	232	131	54	26	73	50
23	71	113	121	162	624	320	287	105	49	21	68	41
24	72	133	122	154	460	288	237	91	43	20	69	33
25	75	139	128	142	402	272	187	82	41	17	63	30
26	83	150	125	134	349	236	171	78	41	16	52	26
27	89	188	123	125	306	211	156	114	48	21	43	26
28	113	197	118	141	281	200	135	150	62	27	53	25
29	130	164	115	156	---	192	127	249	62	28	60	23
30	156	136	114	167	---	278	116	298	46	26	104	27
31	193	---	115	161	---	482	---	167	---	26	102	---
TOTAL	3991	4118	5033	3947	26320	9486	10435	3939	3738	1412	2204	2737
MEAN	129	137	162	127	940	306	348	127	125	45.5	71.1	91.2
MAX	509	203	537	167	4400	554	1530	298	378	138	118	244
MIN	60	93	112	105	141	192	116	78	41	16	41	23
CFSM	.47	.50	.60	.47	3.46	1.13	1.28	.47	.46	.17	.26	.34
IN.	.55	.56	.69	.54	3.60	1.30	1.43	.54	.51	.19	.30	.37

CAL YR 1980 TOTAL 137624 MEAN 376 MAX 4200 MIN 40 CFSM 1.38 IN 18.82
WTR YR 1981 TOTAL 77360 MEAN 212 MAX 4400 MIN 16 CFSM .78 IN 10.58

02344700 LINE CREEK NEAR SENOIA, GA.

LOCATION.--Lat 33°19'10", long 84°31'25", Coweta-Fayette County line, Hydrologic Unit 03130005, on downstream side of bridge on State Highway 85, 2.2 mi (3.5 km) northeast of Senoia, 4.1 mi (6.6 km) upstream from Whitewater Creek, and 11.2 mi (18.0 km) upstream from mouth.

DRAINAGE AREA.--101 mi^2 (262 km^2), approximately.

PERIOD OF RECORD.--September 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 740 ft (226 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record, Nov. 5 to Dec. 8, Dec. 11 to Jan. 19, and Aug. 28 to Sept. 28, which are fair. Low flow affected by withdrawals and return flow by several municipalities.

AVERAGE DISCHARGE.--17 years, 136 ft^3/s (3.85 m^3/s), 18.26 in/yr (464 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,580 ft^3/s (271 m^3/s) Nov. 5, 1977, gage height, 14.88 ft (4.535 m); minimum daily discharge, 2.0 ft^3/s (0.057 m^3/s) July 18, 19, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	2200	*3360	95.2	11.49	3.502	Feb. 19	1900	1100	31.2	8.79	2.679

Minimum daily discharge, 2.0 ft^3/s (0.057 m^3/s) July 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	50	37	35	29	83	534	37	34	11	11	40
2	114	40	36	34	75	99	599	35	36	62	12	30
3	49	34	35	34	130	98	440	32	36	53	11	25
4	28	32	34	33	76	87	213	29	40	42	11	47
5	19	35	34	33	57	172	170	28	35	36	9.5	45
6	15	45	33	33	49	206	208	28	44	50	8.2	30
7	12	38	33	35	53	134	168	31	76	53	8.2	25
8	11	30	32	38	53	102	123	32	210	37	7.5	20
9	11	29	32	41	49	86	106	29	561	24	9.0	18
10	11	28	111	41	108	78	97	34	167	13	14	16
11	11	28	230	39	2200	73	90	69	77	9.2	50	14
12	11	27	150	37	2070	69	83	46	63	5.2	36	12
13	10	27	100	35	659	65	76	37	103	3.9	22	11
14	10	26	80	34	299	63	71	30	58	2.9	14	10
15	10	27	65	34	166	60	59	29	41	2.6	12	15
16	12	35	60	33	139	62	50	27	32	2.2	12	30
17	13	55	55	32	143	63	46	26	26	2.1	40	25
18	14	50	50	32	295	81	45	25	22	2.0	42	20
19	16	40	45	32	989	229	45	28	19	2.0	29	17
20	18	35	42	33	781	184	47	30	16	2.2	20	15
21	18	34	39	41	398	134	88	27	13	3.0	15	13
22	15	33	37	44	226	104	92	22	9.8	4.1	13	11
23	14	32	36	41	187	130	66	19	8.2	5.2	12	9.0
24	14	35	35	38	160	110	66	22	7.5	6.2	11	7.0
25	17	45	37	37	125	88	61	19	7.0	6.4	9.5	6.0
26	21	42	43	36	106	79	72	20	49	7.2	9.8	5.5
27	19	40	39	32	96	71	49	116	63	7.5	10	5.0
28	41	55	36	39	88	70	43	193	33	7.4	10	5.2
29	74	50	36	40	---	68	39	87	19	7.4	12	5.3
30	68	40	35	38	---	141	37	49	11	10	20	4.7
31	58	---	35	33	---	458	---	36	---	10	17	---
TOTAL	925	1117	1702	1117	9806	3547	3883	1272	1916.5	489.7	517.7	536.7
MEAN	29.8	37.2	54.9	36.0	350	114	129	41.0	63.9	15.8	16.7	17.9
MAX	171	55	230	44	2200	458	599	193	561	62	50	47
MIN	10	26	32	32	29	60	37	19	7.0	2.0	7.5	4.7
CFSM	.30	.37	.54	.36	3.47	1.13	1.28	.41	.63	.16	.17	.18
IN.	.34	.41	.63	.41	3.61	1.31	1.43	.47	.71	.18	.19	.20

CAL YR 1980 TOTAL 49918.8 MEAN 136 MAX 2150 MIN 3.2 CFSM 1.35 IN 18.39
WTR YR 1981 TOTAL 26829.6 MEAN 73.5 MAX 2200 MIN 2.0 CFSM .73 IN 9.88

02346180 FLINT RIVER NEAR THOMASTON, GA.

LOCATION.—Lat 32°50'20", long 84°25'27", Upson-Talbot County line, Hydrologic Unit 03130005, at downstream end of left bank pier of bridge on State Highway 36, 2.5 mi (4.0 km) upstream from Lazar Creek, and 7.8 mi (12.6 km) west of Thomaston.
DRAINAGE AREA.—1,220 mi^2 (3,160 km^2), approximately.
PERIOD OF RECORD.—May 1966 to current year.
GAGE.—Water-stage recorder. Datum of gage is 490.00 ft (149.352 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).
REMARKS.—Records fair.
AVERAGE DISCHARGE.—15 years, 1,702 ft^3/s (48.2 m^3/s), 18.95 in/yr (481 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 34,400 ft^3/s (974 m^3/s) Mar. 3, 1971, gage height, 18.4 ft (5.61 m), from floodmarks; minimum daily, 91 ft^3/s (2.58 m^3/s) July 26, 1981.
EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Nov. 28, 1948 reached a stage of 19.3 ft (5.88 m), from floodmarks.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 7,000 ft^3/s (198 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 12	0600	*17500	496	14.63	4.459	Apr. 1	2300	7090	201	11.52	3.511

Minimum daily discharge, 91 ft^3/s (2.58 m^3/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1830	752	720	588	630	1210	5340	598	604	213	134	308
2	1590	673	648	568	774	1360	6430	572	519	296	162	311
3	1250	616	600	551	1150	1440	5000	551	591	476	205	385
4	1020	705	560	541	1230	1360	3820	528	755	492	209	408
5	741	818	546	529	1170	1840	2780	507	642	401	193	461
6	517	716	532	519	1090	2040	2050	496	584	391	177	427
7	421	626	525	563	915	1860	1770	509	560	399	175	340
8	375	600	523	639	834	1690	1620	521	651	405	204	299
9	350	570	526	649	797	1430	1480	511	724	381	300	295
10	336	542	1020	637	1730	1220	1290	489	1100	357	408	244
11	328	517	1430	614	14400	1120	1180	654	1240	350	656	215
12	313	503	1470	576	16300	1070	1100	1210	1170	272	551	211
13	300	492	1390	555	12100	1020	1040	930	797	226	536	188
14	295	491	1260	550	9940	996	983	719	679	195	397	163
15	293	499	1000	540	6090	966	924	621	648	171	348	157
16	293	547	819	536	2710	983	863	541	614	151	290	205
17	293	626	738	534	1860	965	817	498	514	135	275	180
18	303	690	689	531	2320	973	795	478	405	125	351	157
19	323	727	658	530	5390	1260	776	490	339	146	343	155
20	339	706	631	536	5410	1600	770	496	299	143	311	200
21	341	629	614	589	4870	1600	976	499	270	135	299	199
22	343	579	592	643	4170	1600	1050	481	250	132	266	209
23	338	570	581	657	2820	1620	1070	468	231	125	225	180
24	332	756	594	653	2040	1490	1140	427	210	115	202	164
25	351	808	644	624	1700	1340	1030	389	236	100	187	149
26	368	741	644	591	1500	1210	876	421	208	91	180	138
27	389	800	625	573	1360	1110	802	719	187	108	163	128
28	532	896	602	623	1260	1040	728	1060	224	98	147	118
29	722	861	591	668	---	992	661	1070	275	94	136	109
30	783	767	609	677	---	1240	628	918	249	147	146	102
31	786	---	605	656	---	2020	---	806	---	128	174	---
TOTAL	16795	19823	22986	18240	106560	41665	49789	19177	15775	6998	8350	6805
MEAN	542	661	741	588	3806	1344	1660	619	526	226	269	227
MAX	1830	896	1470	677	16300	2040	6430	1210	1240	492	656	461
MIN	293	491	523	519	630	965	628	389	187	91	134	102
CFSM	.44	.54	.61	.48	3.12	1.10	1.36	.51	.43	.19	.22	.19
IN.	.51	.60	.70	.56	3.25	1.27	1.52	.58	.48	.21	.25	.21

CAL YR 1980 TOTAL 578178 MEAN 1580 MAX 20200 MIN 158 CFSM 1.30 IN 17.63
WTR YR 1981 TOTAL 332963 MEAN 912 MAX 16300 MIN 91 CFSM .75 IN 10.15

02347500 FLINT RIVER NEAR CULLODEN, GA.

LOCATION.—Lat 32°43'17", long 84°13'57", Taylor-Upson County line, Hydrologic Unit 03130005, on left bank underneath bridge on U.S. Highway 19, 4 mi (6.4 km) upstream from Auchumpkee Creek, 5 mi (8.0 km) downstream from Swift Creek, 13 mi (20.9 km) southwest of Culloden, and at mile 238.4 (383.6 km).

DRAINAGE AREA.—1,850 mi^2 (4,790 km^2), approximately.

PERIOD OF RECORD.—July 1911 to May 1923, July 1928 to December 1931, March 1937 to current year.

REVISED RECORDS.—WSP 697: 1911-23. WSP 1002: 1943. WSP 1504: 1913, 1916-17, 1918(M), 1919-22, 1923(M), drainage area.

GAGE.—Water-stage recorder. Datum of gage is 334.54 ft (101.968 m) National Geodetic Vertical Datum of 1929. July 1, 1911, to Oct. 11, 1918, nonrecording gage and Oct. 12, 1918, to May 31, 1923, water-stage recorder, at site 2.5 mi (4.0 km) downstream at different datum. July 21, 1928, to Dec. 31, 1931, and Mar. 18, 1937, to May 3, 1939, nonrecording gage at present site and datum.

REMARKS.—Records good. Records of chemical analyses for the water years 1968-79 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.—58 years (1911-22, 1928-31, 1937-81), 2,405 ft^3/s (68.1 m^3/s), 17.65 in/yr (448 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 92,000 ft^3/s (2,610 m^3/s) Mar. 15, 1929, gage height, 38.4 ft (11.70 m), from graph based on gage readings; minimum observed, 92 ft^3/s (2.61 m^3/s) Oct. 4, 6, 7, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1912, that of Mar. 15, 1929.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 11,000 ft^3/s (312 m^3/s) and maximum (*):

Date	Time	Discharge (ft3/s)	Discharge (m3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft3/s)	Discharge (m3/s)	Gage height (ft)	Gage height (m)
Feb. 11	1800	*36000	1020	26.33	8.025	Apr. 1	2300	25100	711	21.87	6.666

Minimum discharge, 128 ft^3/s (3.62 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2290	856	954	800	867	1670	14300	959	956	351	221	332
2	2140	788	889	776	945	1760	19700	911	786	416	325	494
3	1590	708	824	757	1350	1930	8450	881	739	601	322	507
4	1240	691	775	746	1480	1830	5680	859	913	731	350	572
5	989	918	746	733	1410	2730	4260	837	919	727	312	642
6	715	896	734	724	1330	3360	3160	825	869	610	280	714
7	570	770	722	769	1180	2930	2610	858	789	589	254	562
8	498	728	712	864	1040	2640	2400	877	797	586	367	440
9	458	716	710	900	987	2350	2170	859	891	564	520	400
10	429	686	1160	880	3080	2020	1960	824	1050	517	574	370
11	411	674	2250	850	29900	1820	1830	901	1300	483	798	312
12	386	668	2020	808	29400	1700	1690	1340	1740	448	832	282
13	359	662	1840	746	16900	1620	1560	1430	1510	375	737	270
14	348	638	1640	727	12300	1560	1460	1140	1140	320	618	238
15	348	680	1420	765	8760	1500	1370	988	898	283	512	222
16	346	722	1150	764	4740	1490	1270	889	793	256	459	250
17	347	787	1020	757	3130	1490	1190	817	730	221	472	294
18	352	857	946	738	4230	1450	1130	768	593	199	454	250
19	369	899	900	726	7370	1680	1090	754	501	380	519	218
20	386	908	867	738	7630	2080	1060	773	440	292	487	218
21	393	844	840	793	6370	2210	1370	774	402	244	442	266
22	396	785	815	863	5520	2190	1600	762	369	224	423	254
23	395	758	803	882	4060	2620	1570	732	340	196	373	218
24	391	889	809	877	2930	2410	1640	699	321	173	331	200
25	399	1150	861	860	2450	2160	1600	640	306	162	304	189
26	427	1060	889	822	2190	1940	1380	623	328	149	289	175
27	445	1070	860	795	1970	1740	1230	887	317	145	276	162
28	559	1260	829	815	1790	1600	1150	1430	296	153	252	145
29	810	1200	813	897	---	1500	1050	1480	314	148	232	138
30	905	1050	813	920	---	1660	991	1300	367	163	226	130
31	906	---	817	901	---	2890	---	1140	---	221	262	---
TOTAL	20597	25318	31428	24993	165309	62530	91921	28957	21714	10927	12823	9464
MEAN	664	844	1014	806	5904	2017	3064	934	724	352	414	315
MAX	2290	1260	2250	920	29900	3360	19700	1480	1740	731	832	714
MIN	346	638	710	724	867	1450	991	623	296	145	221	130
CFSM	.36	.46	.55	.44	3.19	1.09	1.66	.51	.39	.19	.22	.17
IN.	.41	.51	.63	.50	3.32	1.26	1.85	.58	.44	.22	.26	.19

CAL YR 1980 TOTAL 887052 MEAN 2424 MAX 30400 MIN 255 CFSM 1.31 IN 17.84
WTR YR 1981 TOTAL 505981 MEAN 1386 MAX 29900 MIN 130 CFSM .75 IN 10.17

02349500 FLINT RIVER AT MONTEZUMA, GA.

LOCATION.—Lat 32°17'53", long 84°02'38", Macon County, Hydrologic Unit 03130006, near left bank on downstream end of pier of bridge on State Highways 26 and 49, 1,000 ft (305 m) upstream from Central of Georgia Railway bridge, 1,400 ft (427 m) upstream from Seaboard Coast Line Railroad (formerly Atlanta, Birmingham and Coast) bridge, just upstream from Buck Creek, 1 mi (1.6 km) west of Montezuma, and at mile 180.6 (290.6 km).

DRAINAGE AREA.—2,900 mi^2 (7,500 km^2), approximately; includes that of Buck Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1904 to December 1912 (published as "near Montezuma"), July 1930 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

REVISED RECORDS.—WSP 822: Drainage area. WSP 852: 1936(M). WSP 1504: 1905-9, 1911-12, drainage area (at site used prior to 1912).

GAGE.—Water-stage recorder. Datum of gage is 255.83 ft (77.977 m) National Geodetic Vertical Datum of 1929. January 1905 to December 1909, and January 1911 to December 1912, nonrecording gage at site 1.5 mi (2.4 km) upstream at same datum. July 1, 1930, to June 30, 1933, and Oct. 1, 1934, to Dec. 12, 1941, nonrecording gage, and Dec. 13, 1941, to Oct. 25, 1955, water-stage recorder at site 500 ft (152 m) downstream at same datum.

REMARKS.—Records good. Records include flow of Buck Creek. Prior to Dec. 31, 1963, when operation was discontinued, moderate diurnal fluctuation at low flow caused by powerplant above station.

AVERAGE DISCHARGE.—59 years, 3,591 ft^3/s (102 m^3/s), 16.82 in/yr (427 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 68,900 ft^3/s (1,950 m^3/s) Nov. 30, 1948, gage height, 25.2 ft (7.68 m); minimum daily, 542 ft^3/s (15.3 m^3/s) July 30, 1981.

FLOODS OUTSIDE PERIOD OF RECORD.—Flood on Mar. 2, 1897, reached a stage of 26.0 ft (7.92 m) at former site, from National Weather Service, discharge, 97,000 ft^3/s (2,750 m^3/s), from rating curve extended above 10,000 ft^3/s (283 m^3/s on basis of peak flows passing upstream and downstream stations.

Flood on Mar. 17, 1929, reached a stage of 27.4 ft (8.35 m), at present site, from National Weather Service, discharge, 92,300 ft^3/s (2,610 m^3/s), from rating curve extended above 65,000 ft^3/s (1,840 m^3/s).

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 13,000 ft^3/s (368 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 14	1300	*32100	909	19.94	6.078
Apr. 4	1300	23100	654	17.98	5.480

Minimum daily discharge, 542 ft^3/s (15.3 m^3/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1590	1730	1870	1550	1630	3250	5780	1840	1750	778	583	883
2	2590	1660	1750	1530	1690	3100	11000	1780	1650	793	661	809
3	3060	1570	1660	1510	1840	3080	14100	1700	1570	841	715	827
4	2580	1480	1590	1480	2020	3220	22100	1640	1480	996	774	948
5	2120	1430	1540	1460	2200	3570	18900	1590	1440	1140	773	1030
6	1850	1470	1490	1440	2170	4260	13000	1560	1560	1200	772	1120
7	1610	1590	1450	1510	2100	4940	9130	1620	1490	1150	758	1200
8	1390	1500	1430	1650	2030	4540	5630	1710	1570	1090	836	1190
9	1260	1400	1420	1730	1900	3960	4430	1700	1570	1050	921	1060
10	1180	1340	1440	1740	2010	3520	3960	1640	1520	1000	995	957
11	1120	1310	1620	1680	6680	3160	3590	1580	1560	978	1080	883
12	1070	1270	2550	1620	9890	2920	3290	1540	2020	916	1250	831
13	1040	1230	2800	1550	16100	2770	3070	1750	2340	883	1710	783
14	1020	1220	2610	1500	30800	2630	2880	2030	2480	836	1630	756
15	986	1210	2430	1470	26400	2540	2710	1830	2200	764	1340	742
16	970	1230	2250	1490	19200	2530	2580	1640	1780	709	1160	730
17	967	1280	2040	1490	14600	2540	2450	1500	1540	691	1100	739
18	965	1340	1870	1470	11700	2540	2350	1390	1380	670	1130	747
19	969	1400	1780	1470	8760	2570	2260	1310	1260	630	1060	738
20	984	1440	1720	1450	7890	2790	2210	1260	1130	600	1020	707
21	997	1470	1660	1490	8170	3050	2270	1250	1050	709	1020	677
22	1180	1450	1620	1540	8680	3250	2510	1240	988	767	992	665
23	1090	1400	1590	1600	8870	3540	2740	1200	932	712	970	679
24	1030	1450	1570	1630	8290	3930	2840	1150	891	643	958	666
25	1050	1610	1560	1620	6360	3660	2910	1110	887	600	915	632
26	1040	1900	1580	1590	4530	3250	2790	1070	931	581	862	609
27	1050	2010	1620	1560	3830	2920	2490	1160	889	568	810	595
28	1130	1920	1610	1570	3480	2680	2210	1380	838	556	768	581
29	1260	1990	1590	1600	---	2530	2050	1810	791	546	747	572
30	1510	2000	1570	1640	---	2570	1950	2060	768	542	746	557
31	1710	---	1550	1650	---	2990	---	1920	---	552	846	---
TOTAL	42368	45300	54830	48280	223820	98800	160180	47960	42255	24491	29902	23913
MEAN	1367	1510	1769	1557	7994	3187	5339	1547	1409	790	965	797
MAX	3060	2010	2800	1740	30800	4940	22100	2060	2480	1200	1710	1200
MIN	965	1210	1420	1440	1630	2530	1950	1070	768	542	583	557
CFSM	.47	.52	.61	.54	2.76	1.10	1.84	.53	.49	.27	.33	.28
IN.	.54	.58	.70	.62	2.87	1.27	2.05	.62	.54	.31	.38	.31

CAL YR 1980 TOTAL 1313428 MEAN 3589 MAX 28700 MIN 845 CFSM 1.24 IN 16.85
WTR YR 1981 TOTAL 842099 MEAN 2307 MAX 30800 MIN 542 CFSM .80 IN 10.80

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.70	3.01	3.25	2.57	2.72	5.35	8.25	3.09	2.93	.99	.66	1.21
2	4.44	2.88	3.02	2.53	2.82	5.14	12.86	2.98	2.75	1.03	.82	1.06
3	5.16	2.70	2.87	2.50	3.10	5.12	14.58	2.84	2.60	1.12	.94	1.09
4	4.51	2.54	2.74	2.44	3.42	5.31	17.67	2.73	2.43	1.46	1.07	1.36
5	3.72	2.45	2.64	2.40	3.74	5.81	16.57	2.63	2.37	1.78	1.06	1.54
6	3.23	2.53	2.55	2.37	3.69	6.69	14.07	2.58	2.58	1.89	1.05	1.75
7	2.80	2.75	2.48	2.49	3.56	7.49	11.44	2.70	2.45	1.81	1.01	1.91
8	2.41	2.59	2.45	2.75	3.43	7.03	8.22	2.85	2.59	1.67	1.17	1.87
9	2.15	2.40	2.43	2.89	3.20	6.32	6.91	2.83	2.60	1.59	1.34	1.61
10	1.99	2.29	2.47	2.90	3.38	5.74	6.33	2.72	2.51	1.51	1.48	1.37
11	1.87	2.23	2.80	2.81	9.15	5.23	5.85	2.61	2.59	1.47	1.67	1.21
12	1.75	2.14	4.42	2.68	12.11	4.89	5.42	2.55	3.41	1.36	2.01	1.10
13	1.67	2.07	4.71	2.57	15.24	4.67	5.10	2.92	3.99	1.30	2.85	1.00
14	1.61	2.04	4.44	2.47	19.68	4.47	4.82	3.43	4.21	1.22	2.71	.94
15	1.55	2.03	4.13	2.43	18.74	4.32	4.59	3.10	3.74	1.08	2.18	.90
16	1.52	2.06	3.83	2.46	16.70	4.31	4.38	2.77	2.99	.96	1.81	.88
17	1.51	2.16	3.45	2.45	14.87	4.31	4.18	2.55	2.55	.92	1.71	.90
18	1.51	2.27	3.15	2.43	13.32	4.32	4.00	2.37	2.26	.88	1.75	.92
19	1.52	2.38	2.98	2.41	11.18	4.36	3.85	2.24	2.01	.80	1.60	.90
20	1.55	2.46	2.87	2.38	10.40	4.70	3.77	2.18	1.76	.74	1.50	.82
21	1.58	2.51	2.77	2.45	10.66	5.08	3.87	2.19	1.57	.96	1.49	.75
22	1.95	2.48	2.69	2.55	11.12	5.36	4.27	2.18	1.44	1.08	1.44	.73
23	1.77	2.39	2.64	2.66	11.28	5.77	4.63	2.13	1.32	.93	1.40	.76
24	1.65	2.49	2.60	2.71	10.77	6.29	4.77	2.06	1.23	.79	1.38	.73
25	1.69	2.78	2.59	2.69	8.95	5.94	4.87	1.99	1.22	.70	1.29	.66
26	1.67	3.30	2.62	2.63	7.02	5.35	4.70	1.93	1.32	.65	1.16	.62
27	1.68	3.50	2.70	2.58	6.16	4.88	4.23	2.06	1.22	.62	1.06	.59
28	1.86	3.34	2.68	2.60	5.68	4.55	3.76	2.40	1.12	.59	.97	.55
29	2.14	3.46	2.63	2.65	---	4.31	3.48	3.12	1.02	.55	.92	.53
30	2.61	3.47	2.59	2.73	---	4.36	3.30	3.50	.97	.54	.91	.49
31	2.97	---	2.57	2.75	---	4.99	---	3.23	---	.57	1.13	---
MEAN	2.28	2.59	2.99	2.58	8.79	5.24	6.82	2.63	2.26	1.08	1.40	1.03
MAX	5.16	3.50	4.71	2.90	19.68	7.49	17.67	3.50	4.21	1.89	2.85	1.91
MIN	1.51	2.03	2.43	2.37	2.72	4.31	3.30	1.93	.97	.54	.66	.49

WTR YR 1981 MEAN 3.26 MAX 19.68 MIN .49

02349500 FLINT RIVER AT MONTEZUMA, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to July 1974, August 1976 to current year.
REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	TEMPER-ATURE, AIR (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV 17...	0930	1270	6.5	7.0	15.5	11.0	9.6
JAN 19...	1330	1470	--	7.2	5.0	14.0	13.4
FEB 23...	1300	8910	--	6.4	13.5	15.0	8.0
MAR 16...	1220	2540	--	7.0	13.5	17.5	9.5
APR 20...	1240	2200	6.7	6.9	22.5	29.5	6.8
MAY 18...	1100	1390	6.8	7.2	22.0	29.0	7.5
JUN 15...	1200	2220	--	7.1	28.0	34.5	7.1
JUL 20...	1150	600	7.0	7.1	27.0	35.0	7.2
AUG 17...	1210	1100	6.6	6.8	26.0	35.0	7.2
SEP 21...	1200	680	7.1	7.0	17.5	30.0	9.2

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)
NOV 17...	53	30	6	6	.3	40	15
JAN 19...	58	20	8	5	.4	--	14
FEB 23...	42	100	60	17	.9	110	8.0
MAR 16...	57	40	14	8	.5	<30	15
APR 20...	50	50	11	8	.4	<30	17
MAY 18...	57	40	10	<5	.9	<30	20
JUN 15...	54	160	39	16	1.2	40	16
JUL 20...	50	30	8	--	.5	<30	14
AUG 17...	59	40	10	--	1.0	40	14
SEP 21...	55	10	2	--	.5	<30	17

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV						
17...	8	.10	<.020	.17	.040	1.0
JAN						
19...	3	.26	<.020	.10	.040	1.0
FEB						
23...	39	.14	.080	.80	.100	6.0
MAR						
16...	21	.13	.020	.30	.040	2.0
APR						
20...	6	.16	.040	.30	.040	2.9
MAY						
18...	13	.22	<.020	<.10	.040	2.0
JUN						
15...	42	.24	.030	.30	.090	5.0
JUL						
20...	8	.07	.020	--	.020	1.7
AUG						
17...	14	.22	.040	--	.050	2.0
SEP						
21...	5	.07	.020	--	<.020	6.5

02349900 TURKEY CREEK AT BYROMVILLE, GA.

LOCATION.—Lat 32°11'44", long 83°54'03", Dooly County, Hydrologic Unit 03130006, on downstream side of bridge on State Highway 90, 0.5 mi (0.8 km) southwest of Byromville, and 11 mi (17.7 km) upstream from mouth.
DRAINAGE AREA.—45 mi^2 (117 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—Water years 1951-58 (annual maximum), June 1958 to current year.
GAGE.—Water-stage recorder. Altitude of gage is 286 ft (87 m), from topographic map. Prior to June 19, 1958, crest-stage gage at site 50 ft (15 m) upstream at same datum.
REMARKS.—Records fair.
AVERAGE DISCHARGE.—23 years (1958-81), 48.7 ft^3/s (1.38 m^3/s), 14.70 in/yr (373 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 4,820 ft^3/s (137 m^3/s) Apr. 1, 1981, gage height, 13.82 ft (4.212 m); minimum discharge, 0.1 ft^3/s (0.003 m^3/s) July 28, 1968.
EXTREMES FOR CURRENT YEAR.—Peak discharge above base of 400 ft^3/s (11.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	1900	858	24.3	10.56	3.219
Apr. 1	2000	*4820	137	13.82	4.212

Minimum discharge, 2.0 ft^3/s (0.057 m^3/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	7.6	6.8	6.5	7.9	22	1980	12	5.4	2.8	6.5	3.7
2	12	7.1	6.9	6.4	13	22	1900	11	5.7	2.9	7.1	3.6
3	9.0	6.8	6.9	6.4	11	20	470	9.3	6.1	2.8	7.3	5.2
4	7.8	7.2	6.8	6.3	9.6	20	245	8.6	5.6	3.4	5.6	4.6
5	7.0	7.1	6.8	6.2	8.8	76	167	9.4	5.0	4.2	4.8	7.8
6	6.7	6.8	6.8	6.2	8.5	82	127	9.5	5.0	2.9	4.4	7.7
7	6.4	6.7	6.8	13	9.8	43	100	11	8.4	2.9	4.2	5.4
8	6.3	6.7	6.8	10	9.6	31	82	11	11	2.5	4.2	4.7
9	6.3	6.7	6.9	8.8	8.8	26	69	10	8.3	2.2	4.6	4.2
10	5.9	6.7	8.3	8.1	22	23	60	9.7	6.8	2.4	4.7	4.0
11	6.0	6.6	8.3	7.8	608	21	52	9.2	8.7	2.5	4.5	3.6
12	5.8	6.5	7.3	7.5	394	20	46	8.7	9.8	3.0	4.7	3.4
13	5.7	6.5	7.0	7.4	114	19	41	8.3	8.5	8.7	4.3	3.2
14	5.8	6.7	6.8	7.6	64	18	36	7.9	9.8	4.3	4.1	3.2
15	5.8	6.9	6.7	7.6	46	17	31	7.6	7.2	4.4	4.1	3.2
16	5.8	7.1	7.4	7.5	38	20	27	7.2	5.9	4.2	4.9	3.5
17	5.9	7.4	7.5	7.2	33	22	26	6.7	5.2	3.9	6.6	3.3
18	6.0	7.5	7.1	7.2	57	25	24	7.0	4.6	3.7	4.4	3.1
19	6.2	7.1	7.0	7.2	109	41	19	6.9	4.3	3.3	4.3	3.0
20	6.4	7.1	6.6	7.3	78	32	18	7.0	4.0	4.0	4.3	3.1
21	6.3	7.0	6.4	7.7	51	24	32	6.9	4.0	5.0	4.3	2.9
22	6.4	6.9	6.3	7.5	40	34	30	6.6	4.1	4.0	4.4	2.9
23	6.7	7.2	6.7	7.4	43	56	24	6.3	4.0	3.6	4.7	2.9
24	7.2	9.6	6.9	7.3	41	39	27	5.8	4.0	3.2	5.1	2.8
25	7.5	8.1	6.9	7.3	32	38	26	5.9	3.9	3.3	4.7	2.8
26	7.2	7.5	6.5	7.5	28	27	19	6.4	3.6	3.2	4.4	2.7
27	7.0	10	6.6	7.3	25	22	16	7.5	3.1	3.6	4.2	2.7
28	14	8.7	6.9	13	24	21	14	6.4	2.8	3.4	4.2	2.7
29	10	7.5	7.0	10	---	19	13	5.8	2.8	3.3	4.0	2.6
30	11	7.0	6.9	9.0	---	34	13	5.9	2.7	4.9	3.9	2.5
31	9.2	---	6.7	8.3	---	51	---	5.2	---	12	4.0	---
TOTAL	242.3	218.3	215.3	244.5	1934.0	965	5734	246.7	170.3	120.5	147.5	111.0
MEAN	7.82	7.28	6.95	7.89	69.1	31.1	191	7.96	5.68	3.89	4.76	3.70
MAX	23	10	8.3	13	608	82	1980	12	11	12	7.3	7.8
MIN	5.7	6.5	6.3	6.2	7.9	17	13	5.2	2.7	2.2	3.9	2.5
CFSM	.17	.16	.15	.18	1.54	.69	4.24	.18	.13	.09	.11	.08
IN.	.20	.18	.18	.20	1.60	.80	4.74	.20	.14	.10	.12	.09

CAL YR 1980 TOTAL 13348.1 MEAN 36.5 MAX 679 MIN 2.5 CFSM .81 IN 11.03
WTR YR 1981 TOTAL 10349.4 MEAN 28.4 MAX 1980 MIN 2.2 CFSM .63 IN 8.56

02349900 TURKEY CREEK AT BYRONVILLE, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Miscellaneous samples collected during 1971 and 1973. July 1979 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, *Georgia Department of Natural Resources*. *Field* determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT							
21...	1230	6.2	7.3	7.5	19.0	16.0	6.9
NOV							
17...	1200	7.6	--	7.4	12.0	16.0	6.7
DEC							
15...	1130	6.7	7.3	7.3	15.5	9.0	9.6
JAN							
19...	1400	7.3	--	7.5	17.0	5.0	11.5
FEB							
23...	1325	44	--	6.9	18.0	14.0	7.7
MAR							
16...	1305	22	--	7.1	22.0	15.0	7.7
APR							
20...	1335	17	--	7.1	29.0	20.5	5.8
MAY							
18...	1140	7.2	--	7.4	30.0	19.0	6.4
JUN							
15...	1230	7.3	--	7.6	34.0	24.0	6.0
JUL							
20...	1435	3.5	7.2	7.4	35.0	24.0	5.4
AUG							
17...	1255	6.0	6.9	7.2	34.0	22.0	5.9
SEP							
21...	1240	2.9	7.2	7.2	29.0	15.0	7.2

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
21...	155	20	6	.3	40	73	.29	.040	.050	5.0
NOV										
17...	161	40	5	.7	390	74	.21	.030	.080	2.5
DEC										
15...	162	20	5	.5	90	72	.26	<.020	.050	<1.0
JAN										
19...	154	10	8	.2	<30	69	.18	.020	.020	<1.0
FEB										
23...	82	100	58	.9	90	22	.44	.050	.090	5.0
MAR										
16...	108	60	15	1.2	70	37	.12	.020	.040	3.5
APR										
20...	100	100	18	.5	<30	42	.22	.070	.060	5.5
MAY										
18...	146	30	8	1.1	40	69	.24	.020	.020	1.0
JUN										
15...	167	40	11	1.3	90	81	.21	.050	.060	3.0
JUL										
20...	153	30	8	.4	90	65	.24	.060	.060	1.7
AUG										
17...	141	40	11	.9	930	56	.14	.060	.090	2.0
SEP										
21...	131	5	5	.5	40	60	.32	.150	.300	<1.0

02350001 FLINT RIVER NEAR VIENNA, GA.

LOCATION.—Lat 32°03'38", long 83°58'36", Dooly County, Hydrologic Unit 03100206, at bridge on State Route 27, 0.2 mi (0.3 km) downstream of Turkey Creek, and 12 mi (14.3 km) west of Vienna, and at mile 154.1 (247.9 km).

DRAINAGE AREA.—3,390 mi^2 (8,780 km^2).

PERIOD OF RECORD.—July 1979 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Records of discharge for the water years 1927-30 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 21...	1200	7.0	7.1	18.0	20.0	6.4
DEC 15...	1145	7.1	6.9	15.0	9.5	9.4
FEB 23...	1000	6.3	6.4	12.0	13.5	7.8
APR 20...	1010	7.0	6.9	25.0	22.5	6.1
MAY 27...	1000	7.0	7.2	23.0	23.5	5.6
JUN 15...	0945	--	7.2	31.0	28.0	2.5
JUL 20...	0835	7.0	7.4	28.0	28.5	4.6
AUG 17...	0920	--	6.8	28.0	25.5	5.7
SEP 21...	1500	7.2	7.1	31.0	18.5	7.1

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	46	30	9	.4	46	15	.17	.020	.030	1.5
DEC 15...	56	50	12	.5	430	19	.12	.060	.050	2.0
FEB 23...	46	125	66	.9	230	8.0	.17	.030	.100	4.0
APR 20...	92	80	12	.3	90	20	.21	.080	.060	4.3
MAY 27...	126	60	9	.6	90	26	.20	.060	.040	3.0
JUN 15...	91	80	12	.9	40	22	.28	.040	.060	5.0
JUL 20...	152	80	10	.4	30	25	.19	.070	.050	7.0
AUG 17...	67	60	11	.8	40	15	.21	.060	.050	3.0
SEP 21...	118	65	5	.6	<30	24	.32	.080	.050	4.0

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.

LOCATION.--Lat 32°03'09", long 84°32'54", Webster County, Hydrologic Unit 03130007, at bridge on State Highway 41, 1 mi (1.6 km) southwest of Preston, and 1 mi (1.6 km) upstream from Harrel Mill Creek.

DRAINAGE AREA.--197 mi^2 (510 km^2).

PERIOD OF RECORD.--December 1969 to September 1970, November 1971 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water discharge records for the water years 1951-77 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
21...	1100	72	6.7	6.8	18.5	15.5	8.1
21...	1200	72	6.5	6.6	--	16.0	8.2
NOV							
17...	1045	105	--	6.7	12.0	15.0	8.3
DEC							
15...	1045	113	6.7	6.5	10.0	7.0	10.0
JAN							
19...	1115	106	6.2	6.6	11.0	3.5	10.6
FEB							
23...	1200	230	--	6.2	15.5	13.0	7.5
MAR							
16...	1120	168	6.4	6.6	18.0	12.5	8.7
APR							
20...	1140	135	6.6	6.6	27.5	19.0	6.8
MAY							
18...	1000	68	6.5	6.7	27.0	17.0	5.2
JUN							
15...	1100	87	--	7.5	34.0	24.0	7.9
JUL							
20...	1030	22	6.7	6.8	34.0	23.5	6.3
AUG							
17...	1030	57	6.5	6.4	32.0	22.0	7.0
SEP							
21...	1030	44	6.7	6.6	25.0	18.0	7.8

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT									
21...	28	60	8	--	.8	90	--	--	--
21...	25	--	--	4.0	--	--	8	.00	2.3
NOV									
17...	31	80	7	--	.6	230	--	--	--
DEC									
15...	30	60	6	--	.1	90	--	--	--
JAN									
19...	29	30	8	--	.6	90	--	--	--
FEB									
23...	34	65	16	--	.8	65	--	--	--
MAR									
16...	39	60	9	--	.9	230	--	--	--
APR									
20...	36	120	14	--	.5	<30	--	--	--
MAY									
18...	32	120	14	--	.9	230	--	--	--
JUN									
15...	37	120	13	--	.9	230	--	--	--
JUL									
20...	35	80	10	--	.7	90	--	--	--
AUG									
17...	37	100	11	15	1.3	230	11	4.0	3.3
SEP									
21...	30	90	9	--	.4	230	--	--	--

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT									
21...	--	--	--	8.0	--	--	--	--	--
21...	.6	1.4	.6	14	1.4	2.8	.0	8.2	30
NOV									
17...	--	--	--	10	--	--	--	--	--
DEC									
15...	--	--	--	7.0	--	--	--	--	--
JAN									
19...	--	--	--	6.0	--	--	--	--	--
FEB									
23...	--	--	--	6.0	--	--	--	--	--
MAR									
16...	--	--	--	8.0	--	--	--	--	--
APR									
20...	--	--	--	12	--	--	--	--	--
MAY									
18...	--	--	--	10	--	--	--	--	--
JUN									
15...	--	--	--	13	--	--	--	--	--
JUL									
20...	--	--	--	9.0	--	--	--	--	--
AUG									
17...	.6	1.6	.8	8.0	2.2	3.0	<.1	8.6	35
SEP									
21...	--	--	--	9.0	--	--	--	--	--

DATE	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
21...	--	.17	<.020	--	--	--	.050	--	3.0
21...	5.8	.12	.020	.14	.16	.28	.040	.010	4.3
NOV									
17...	--	.10	<.020	--	--	--	.020	--	3.0
DEC									
15...	--	.96	1.84	--	--	--	.020	--	2.0
JAN									
19...	--	.14	.060	--	--	--	<.020	--	<1.0
FEB									
23...	--	.07	.030	--	--	--	.030	--	5.0
MAR									
16...	--	.13	.030	--	--	--	.030	--	2.5
APR									
20...	--	.15	.120	--	--	--	.040	--	6.0
MAY									
18...	--	.32	.060	--	--	--	.040	--	5.0
JUN									
15...	--	.30	.050	--	--	--	.050	--	4.0
JUL									
20...	--	.23	.040	--	--	--	.020	--	3.2
AUG									
17...	5.3	.21	.080	.46	.54	.75	.060	.010	4.0
SEP									
21...	--	.20	.050	--	--	--	.040	--	2.8

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)
OCT							
21...	10	0	0	3	0	1	170
AUG							
17...	60	1	1	2	<10	2	680

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT							
21...	3	0	80	<.1	<.1	0	4
AUG							
17...	7	<1	180	.1	<.1	<1	4

02351890 MUCKALEE CREEK AT STATE HIGHWAY 195, NEAR LEESBURG, GA.

LOCATION.—Lat 31°46'34", long 84°08'22", Lee County, Hydrologic Unit 03130007, at bridge on State Highway 195, 75 ft (23 m) downstream from White Oak Branch, 3.3 mi (5.3 km) downstream from Muckaloochee Creek, and 4.0 mi (6.4 km) northeast of Leesburg.

DRAINAGE AREA.—362 mi^2 (938 km^2).

PERIOD OF RECORD.—December 1979 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 220 ft (67 m), from topographic map.

REMARKS.—Records good. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 3,480 ft^3/s (98.6 m^3/s) Feb. 14, 1981, gage height, 12.98 ft (3.956 m); minimum discharge, 28 ft^3/s (0.79 m^3/s) July 16, 1981.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 1,200 ft^3/s (34.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 14	0100	*3480	98.6	12.98	3.956	Apr. 4	2000	2070	58.6	11.41	3.478

Minimum discharge, 28 ft^3/s (0.79 m^3/s) July 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	281	218	158	218	297	436	142	107	39	77	113
2	219	269	189	156	204	279	549	136	100	53	175	147
3	257	229	168	157	213	267	587	127	130	56	224	167
4	242	188	159	182	234	263	1570	119	181	63	163	149
5	192	165	154	198	248	308	1600	114	185	81	131	168
6	146	153	151	201	246	336	940	110	196	76	103	156
7	126	146	149	216	230	374	609	116	189	72	85	148
8	117	143	148	235	218	425	456	132	204	67	74	155
9	113	140	146	248	214	426	380	156	200	60	113	169
10	109	138	147	254	210	383	338	163	207	59	226	134
11	106	137	154	246	338	296	302	152	159	58	258	110
12	100	135	167	217	436	258	275	133	126	50	367	95
13	97	134	178	195	1840	220	257	122	118	46	499	88
14	94	133	178	180	3040	180	236	113	137	42	364	82
15	91	133	170	172	1800	140	220	105	162	41	250	76
16	89	135	161	171	1010	160	204	95	173	35	205	74
17	90	140	159	172	652	200	192	89	129	31	160	74
18	93	147	159	170	525	275	181	85	96	31	129	71
19	94	153	159	168	480	321	172	83	77	36	118	77
20	96	157	155	165	489	343	165	79	66	35	113	80
21	98	154	151	166	802	414	191	79	58	37	118	71
22	100	150	148	167	1090	482	211	83	53	53	118	66
23	100	149	147	172	882	484	249	83	52	78	121	64
24	101	160	149	178	614	450	284	75	49	59	133	63
25	105	171	159	175	463	490	269	69	50	46	130	61
26	112	195	164	175	394	501	239	72	50	39	126	59
27	118	226	163	198	358	474	242	116	63	43	115	57
28	133	249	159	200	327	379	226	171	55	37	105	53
29	169	256	160	215	---	309	180	203	46	37	96	51
30	215	242	158	243	---	333	154	188	41	33	92	50
31	265	---	158	248	---	416	---	137	---	33	91	---
TOTAL	4161	5208	4985	5998	17775	10483	11914	3647	3459	1526	5079	2928
MEAN	134	174	161	193	635	338	397	118	115	49.2	164	97.6
MAX	265	281	218	254	3040	501	1600	203	207	81	499	169
MIN	89	133	146	156	204	140	154	69	41	31	74	50
CFSM	.37	.48	.45	.53	1.75	.93	1.10	.33	.32	.14	.45	.27
IN.	.43	.54	.51	.62	1.83	1.08	1.22	.37	.36	.16	.52	.30

CAL YR 1980 TOTAL 120216 MEAN 328 MAX 2550 MIN 42 CFSM .91 IN 12.35
WTR YR 1981 TOTAL 77163 MEAN 211 MAX 3040 MIN 31 CFSM .58 IN 7.93

02352500 FLINT RIVER AT ALBANY, GA.

LOCATION.—Lat 31°35'39", long 84°08'39", Dougherty County, Hydrologic Unit 03130008, on right bank at downstream side of Georgia Northern Railway bridge in Albany, and at mile 103.4 (166.4 km).

DRAINAGE AREA.—5,310 mi^2 (13,800 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—February 1897 to September 1901 (gage heights only), October 1901 to June 1921, September 1929 to current year. Monthly discharges only for some periods, published in WSP 1304. Gage-height records collected at site 1 mi (1.6 km) downstream since 1893 are contained in reports of National Weather Service.

REVISED RECORDS.—WSP 1504: 1902, 1913(M), 1916-17, 1919-21, 1930(m), 1934(m), drainage area.

GAGE.—Water-stage recorder. Datum of gage is 150.03 ft (45.729 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1902, nonrecording gage at site 1 mi (1.6 km) downstream at datum 1.3 ft (0.40 m) lower. Jan. 1, 1902, to June 30, 1921, nonrecording gage at site 1 mi (1.6 km) downstream at datum 2.0 ft (0.61 m) lower.

REMARKS.—Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft (9.25 hm3); and at Warwick Reservoir since 1930, capacity about 35,000 acre-ft (43.2 hm3). Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.—71 years (1901-20, 1929-81), 6,297 ft^3/s (178 m^3/s), 16.10 in/yr (409 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 77,000 ft^3/s (2,180 m^3/s) Mar. 7, 1966, gage height, 34.72 ft (10.583 m); minimum daily, 327 ft^3/s (9.26 m^3/s) Aug. 24, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage since at least 1893, 37.84 ft (11.534 m) Jan. 21, 1925, from floodmark, present site and datum, discharge, 92,000 ft^3/s (2,610 m^3/s) from rating curve extended above 75,000 ft^3/s (2,120 m^3/s).

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 20,000 ft^3/s (566 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 17	1445	*29900	847	21.21	6.465	Apr. 6	1745	26800	759	19.66	5.992

Minimum daily discharge, 906 ft^3/s (25.7 m^3/s) Sept. 27, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2630	2740	3460	2500	2510	4660	5870	3440	2680	1020	988	1440
2	2410	1870	3330	2330	2490	5010	13700	2290	2810	1060	1000	1450
3	2580	2610	2520	2980	3510	5030	18000	1340	2110	1060	1220	1860
4	4980	2710	2970	1510	3910	4780	20400	2160	3530	1070	1350	1640
5	3210	2500	2820	2560	2990	6150	21100	2760	3330	1180	1130	1480
6	2590	2500	1770	3390	2520	5380	25600	2610	2890	2070	1040	2220
7	2970	2760	1430	2000	2500	6480	24100	2120	1910	1430	1040	1670
8	2030	2280	2200	2490	3790	7120	17200	2640	1970	2260	1080	1840
9	2220	1710	2630	2930	3050	6390	9350	2370	2930	1660	1280	2200
10	1690	1750	2460	2290	3500	5600	5780	2310	2920	1600	1640	2110
11	1940	2890	3470	2150	7310	5780	6270	2650	2790	1430	1710	1190
12	1210	2810	3600	2900	9630	5010	5880	2560	1930	1050	1840	911
13	1250	2240	2920	4500	16200	3500	4790	2290	1560	1010	1760	930
14	1640	1860	1670	3420	19700	3280	4910	2670	2540	1680	1880	1240
15	1620	1760	3500	1950	24800	3720	4390	2040	1960	2170	1840	1440
16	1860	1260	3870	1990	28300	4730	3910	1300	2640	2350	1590	1450
17	1820	1600	3840	2100	29500	4550	3940	1300	2620	1710	1530	1230
18	1800	2790	3890	3150	26600	3470	3280	2450	2530	1030	1530	1130
19	1090	3120	2880	1440	21100	4950	3400	3520	2010	959	1480	951
20	1100	2640	2000	2040	13700	4120	4070	2110	1880	946	1410	948
21	1440	1810	1930	2760	11900	4470	4050	2200	1870	945	1290	949
22	1620	1560	3470	3300	13400	5390	3730	1650	1400	935	1170	948
23	1830	1330	3520	3300	10000	6900	3620	1820	2140	947	1080	947
24	1840	1720	1940	2300	13500	6210	4280	1380	2320	1010	1050	1150
25	1600	2060	1790	1450	11800	6600	4960	1390	1750	1060	1170	1250
26	1260	2580	1980	2130	8320	6630	3930	3210	1560	1010	1060	913
27	1120	3250	2300	2130	6050	5730	4610	2020	1470	932	1140	906
28	2000	2150	2660	1880	5630	3940	3890	2960	1210	911	1170	907
29	2710	3200	2630	2610	---	4980	3440	2960	1080	916	1750	906
30	2870	3250	2370	3120	---	5270	3520	2310	1050	946	981	1180
31	2950	---	3030	3140	---	5450	---	2160	---	988	1090	---
TOTAL	63880	69310	84850	78740	308210	161280	245970	70990	65390	39345	41289	39386
MEAN	2061	2310	2737	2540	11010	5203	8199	2290	2180	1269	1332	1313
MAX	4980	3250	3890	4500	29500	7120	25600	3520	3530	2350	1880	2220
MIN	1090	1260	1430	1440	2490	3280	3280	1300	1050	911	981	906
CFSM	.39	.44	.52	.48	2.07	.98	1.54	.43	.41	.24	.25	.25
IN.	.45	.49	.59	.55	2.16	1.13	1.72	.50	.46	.28	.29	.28

CAL YR 1980 TOTAL 2187240 MEAN 5976 MAX 39100 MIN 1090 CFSM 1.13 IN 15.32
WTR YR 1981 TOTAL 1268640 MEAN 3476 MAX 29500 MIN 906 CFSM .66 IN 8.89

02352500 FLINT RIVER AT ALBANY, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.11	4.19	4.72	3.99	3.99	5.44	6.11	4.61	4.14	2.37	2.33	2.91
2	3.93	3.36	4.63	3.81	3.95	5.63	10.61	3.76	4.24	2.44	2.35	2.93
3	4.04	4.06	3.99	4.37	4.73	5.61	13.56	2.80	3.61	2.44	2.65	3.37
4	5.58	4.10	4.34	2.98	5.01	5.46	15.37	3.64	4.76	2.44	2.82	3.15
5	4.40	3.96	4.24	3.93	4.34	6.24	15.87	4.17	4.62	2.58	2.53	2.98
6	4.05	3.97	3.29	4.67	4.00	5.85	18.95	4.01	4.27	3.47	2.41	3.73
7	4.34	4.19	2.92	3.50	3.99	6.45	17.98	3.63	3.45	2.92	2.41	3.19
8	3.53	3.78	3.61	3.97	4.94	6.80	12.99	4.10	3.47	3.76	2.46	3.36
9	3.70	3.24	4.06	4.35	4.41	6.40	8.01	3.88	4.33	3.18	2.74	3.70
10	3.21	3.26	3.94	3.80	4.73	5.95	6.06	3.82	4.33	3.11	3.14	3.58
11	3.47	4.31	4.70	3.65	6.89	6.05	6.33	4.01	4.21	2.89	3.22	2.60
12	2.63	4.21	4.81	4.27	8.09	5.65	6.11	3.98	3.44	2.40	3.38	2.21
13	2.65	3.75	4.33	5.37	12.30	4.75	5.52	3.80	3.01	2.36	3.30	2.24
14	3.15	3.39	3.13	4.64	14.84	4.60	5.59	4.12	4.00	3.17	3.40	2.66
15	3.12	3.29	4.73	3.50	18.47	4.90	5.23	3.51	3.46	3.60	3.37	2.90
16	3.38	2.68	4.99	3.51	20.40	5.50	4.89	2.76	4.10	3.81	3.10	2.91
17	3.33	2.99	4.97	3.62	21.03	5.35	4.97	2.75	4.09	3.22	3.04	2.67
18	3.34	4.23	5.01	4.51	19.57	4.66	4.53	3.80	3.99	2.39	3.03	2.53
19	2.48	4.49	4.28	2.90	15.91	5.60	4.62	4.65	3.53	2.29	2.97	2.27
20	2.50	4.11	3.54	3.52	10.58	5.10	5.03	3.63	3.40	2.27	2.89	2.27
21	2.90	3.33	3.44	4.21	9.40	5.36	5.02	3.72	3.39	2.26	2.75	2.27
22	3.12	3.07	4.72	4.60	10.26	5.85	4.85	3.16	2.86	2.25	2.59	2.27
23	3.34	2.79	4.76	4.61	8.30	6.68	4.78	3.34	3.66	2.26	2.46	2.27
24	3.35	3.17	3.44	3.83	10.45	6.30	5.21	2.85	3.83	2.34	2.42	2.54
25	3.10	3.59	3.31	2.91	9.34	6.52	5.60	2.84	3.21	2.43	2.58	2.65
26	2.70	4.01	3.50	3.60	7.41	6.54	5.03	4.54	3.06	2.36	2.42	2.21
27	2.52	4.54	3.82	3.61	6.21	6.04	5.41	3.50	2.97	2.24	2.54	2.20
28	3.48	3.61	4.12	3.41	5.99	4.84	4.88	4.35	2.63	2.21	2.57	2.20
29	4.15	4.54	4.09	4.04	---	5.62	4.63	4.32	2.47	2.22	3.24	2.20
30	4.28	4.58	3.86	4.44	---	5.78	4.68	3.82	2.42	2.26	2.32	2.57
31	4.35	---	4.42	4.49	---	5.82	---	3.69	---	2.33	2.45	---
MEAN	3.49	3.76	4.12	3.96	9.27	5.72	7.61	3.73	3.63	2.65	2.77	2.72
MAX	5.58	4.58	5.01	5.37	21.03	6.80	18.95	4.65	4.76	3.81	3.40	3.73
MIN	2.48	2.68	2.92	2.90	3.95	4.60	4.53	2.75	2.42	2.21	2.32	2.20

WTR YR 1981 MEAN 4.41 MAX 21.03 MIN 2.20

02352500 FLINT RIVER AT ALBANY, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
NOV 18...	1450	2250	--	7.4	12.0	16.0	7.7
DEC 10...	1510	2000	7.0	7.3	15.0	13.5	8.8
MAR 16...	0930	4280	7.1	7.4	15.0	15.0	8.6
JUN 15...	0830	1720	--	7.4	30.5	28.0	4.3
SEP 21...	0845	949	7.4	7.4	22.0	21.0	7.8

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 18...	70	30	6	.5	430	23	.29	<.020	.020	1.5
DEC 10...	72	30	5	.6	430	27	.26	.020	<.020	3.0
MAR 16...	80	50	11	.5	1500	20	.25	.030	.030	2.0
JUN 15...	98	80	10	1.0	2300	30	.29	.030	.040	8.0
SEP 21...	121	40	5	.8	150	34	.22	.050	.020	2.8

02352790 FLINT RIVER NEAR PUTNEY, GA.

LOCATION.—Lat 31°26'39", long 84°08'16", Dougherty County, Hydrologic Unit 03130008, at Plant Mitchell intake, and 2.5 mi (4.0 km) south of Putney, and at mile 90.8 (146.1 km).

DRAINAGE AREA.—5,340 mi^2 (13,800 km^2), approximately.

PERIOD OF RECORD.—August 1974 to current year.

PERIOD OF DAILY RECORD.—

WATER TEMPERATURES: July 1979 to current year.

INSTRUMENTATION.—Water temperature recorder since July 1979.

REMARKS.--Flow regulated by powerplants at Flint River and Warwick Reservoirs. (See remarks for station 02352500.) Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. No daily water temperature record June 16 to July 5.

EXTREMES FOR PERIOD OF DAILY RECORD.—

WATER TEMPERATURES: Maximum recorded, 31.0°C July 15-18, 1980, July 26-29, 1981; minimum, 5.0°C Jan. 13, 1981.

EXTREMES FOR CURRENT YEAR.—

WATER TEMPERATURES: Maximum recorded, 31.0°C July 26-29; minimum, 5.0°C Jan. 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 13...	1415	1260	7.0	7.5	21.0	21.0	8.7
NOV 18...	1415	2940	--	7.4	12.0	16.5	8.4
DEC 10...	1420	2350	7.2	7.4	17.0	14.0	8.9
JAN 13...	1450	4310	--	7.5	9.0	6.0	11.3
FEB 11...	1445	7060	7.1	7.4	10.0	9.0	12.8
MAR 10...	1410	4800	--	7.6	21.0	15.0	9.5
APR 14...	1330	5000	--	7.2	29.0	21.5	7.3
MAY 13...	1400	2460	--	7.6	30.0	23.0	6.2
JUN 03...	1410	2210	7.0	7.5	33.0	26.0	5.6
JUL 14...	1330	1470	--	7.7	35.0	28.5	4.8
AUG 11...	1350	1720	7.0	7.5	34.0	29.0	5.4
SEP 15...	1320	1860	7.5	7.4	30.5	24.0	5.2

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CACO3)
OCT 13...	130	20	5	6	.9	90	43
NOV 18...	88	20	6	6	.9	90	26
DEC 10...	100	20	7	15	3.7	43000	28
JAN 13...	84	30	5	6	.3	150	22
FEB 11...	80	25	10	10	1.2	15000	19
MAR 10...	90	80	19	13	.7	70	21
APR 14...	79	135	19	15	.9	90	21
MAY 13...	112	60	9	9	1.5	430	36
JUN 03...	125	80	10	23	1.1	--	33
JUL 14...	140	40	5	13	1.1	43000	40
AUG 11...	133	30	4	--	.9	43000	36
SEP 15...	162	40	7	--	.6	4300	45

02352790 FLINT RIVER NEAR PUTNEY, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT						
13...	5	.58	.270	.49	.140	6.0
NOV						
18...	9	.33	.320	.52	.100	1.5
DEC						
10...	9	.34	.360	1.00	.300	6.0
JAN						
13...	3	.31	.210	.30	.070	2.0
FEB						
11...	5	.25	.140	.40	.060	2.3
MAR						
10...	6	.25	.190	.50	.080	4.0
APR						
14...	3	.23	.150	.50	.100	6.0
MAY						
13...	<1	.36	.220	.40	.100	8.0
JUN						
03...	3	.38	.270	.20	.100	3.0
JUL						
14...	6	.37	.340	.60	.210	4.0
AUG						
11...	5	.29	.230	--	.120	3.0
SEP						
15...	<1	.47	.390	--	.120	4.6

02352790 FLINT RIVER NEAR PUTNEY, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.5	24.5	18.0	17.0	12.5	11.5	9.0	8.0	10.5	9.0	15.5	15.0
2	25.5	24.5	18.0	17.0	12.5	12.0	9.5	8.5	11.0	10.0	16.5	15.5
3	24.5	24.0	18.0	17.0	12.5	12.0	9.0	8.0	10.0	9.0	16.0	15.5
4	24.5	23.5	18.5	17.5	12.5	11.5	9.5	8.5	9.0	8.5	16.0	15.5
5	23.5	23.0	18.0	17.5	12.5	11.5	9.5	7.5	9.5	8.0	16.0	15.5
6	23.0	22.0	18.0	17.0	13.0	12.0	8.0	7.0	9.0	8.5	16.0	15.5
7	23.0	22.0	18.0	17.0	13.0	12.5	8.5	7.5	9.0	8.5	16.0	15.5
8	22.5	21.5	18.0	17.0	13.5	12.5	8.5	7.5	9.0	8.5	15.5	15.0
9	23.0	21.5	18.0	16.5	14.0	12.5	7.5	7.0	10.0	8.5	15.5	15.0
10	22.5	21.5	18.0	17.0	14.0	13.5	8.0	7.0	10.5	9.5	15.5	14.5
11	23.0	21.5	17.5	17.0	13.5	13.0	7.5	7.0	10.5	10.0	15.0	14.5
12	22.5	21.5	17.0	16.5	13.0	12.5	7.5	6.0	10.0	9.0	15.5	14.5
13	21.5	20.5	16.5	15.5	13.0	12.0	6.0	5.0	9.0	8.5	15.5	15.0
14	21.5	20.5	17.0	16.0	13.0	12.0	6.0	5.5	8.5	7.5	15.5	14.5
15	22.0	20.5	17.5	16.5	13.0	11.5	7.5	6.0	8.5	8.0	15.5	14.5
16	22.0	21.0	17.5	17.0	12.0	11.5	7.5	6.5	8.5	8.5	16.0	15.5
17	22.0	21.0	17.5	17.0	12.0	11.5	7.0	6.0	9.5	8.5	16.0	15.0
18	22.5	21.5	17.0	16.0	12.0	11.0	7.0	6.0	10.5	9.5	16.0	15.0
19	22.5	21.5	16.0	15.5	12.0	11.0	8.0	6.0	11.5	10.5	15.5	14.5
20	22.0	21.5	15.5	15.0	12.0	11.5	8.0	7.5	12.0	11.0	15.0	14.0
21	22.0	21.0	15.0	14.5	11.5	10.5	7.5	7.0	12.5	12.0	15.0	14.0
22	22.0	21.0	14.5	14.0	10.5	9.5	7.0	6.5	13.0	12.5	14.5	14.0
23	21.5	21.0	14.5	14.0	10.0	9.5	7.5	6.5	14.0	13.0	14.0	13.5
24	21.0	20.0	15.0	14.5	10.5	9.0	8.0	7.0	13.5	13.0	14.0	13.5
25	20.0	19.5	14.5	13.5	10.5	9.5	9.0	7.5	14.0	13.5	14.5	13.5
26	19.5	18.5	14.0	13.5	9.5	9.0	9.5	8.5	14.5	14.0	14.5	13.5
27	19.0	18.5	14.0	13.0	9.0	8.0	9.5	8.0	15.0	14.0	15.5	14.0
28	19.0	18.5	13.5	13.0	8.5	8.0	10.5	9.5	15.5	14.5	16.5	15.0
29	19.0	18.5	13.0	12.0	8.5	8.0	10.0	9.0	---	---	16.5	16.0
30	18.5	18.0	12.5	12.0	9.0	8.5	10.5	9.0	---	---	17.5	16.5
31	18.0	17.5	---	---	9.0	8.0	10.0	9.0	---	---	18.0	17.0
MONTH	25.5	17.5	18.5	12.0	14.0	8.0	10.5	5.0	15.5	7.5	18.0	13.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.5	17.5	24.0	22.5	27.0	24.5	---	---	28.5	28.0	28.0	27.0
2	18.0	17.5	23.5	22.5	26.5	25.5	---	---	29.0	28.0	28.5	27.0
3	19.0	18.0	23.5	22.0	27.0	25.5	---	---	29.0	27.5	28.0	27.0
4	19.5	18.5	24.0	22.0	27.0	25.5	---	---	29.5	28.0	27.5	26.5
5	19.5	18.5	24.0	22.5	27.5	26.0	---	---	29.5	28.0	27.5	27.0
6	18.5	18.0	23.0	22.5	27.5	26.0	29.0	27.0	29.0	28.0	28.0	27.0
7	18.5	17.5	23.0	22.0	27.0	26.0	29.0	27.0	29.0	28.5	28.0	27.0
8	18.5	17.5	23.0	22.0	27.0	26.0	30.0	28.0	29.0	28.0	27.5	26.5
9	19.0	18.0	23.0	21.5	28.0	26.5	29.5	28.0	28.5	28.0	28.0	26.5
10	19.5	18.5	22.5	21.5	28.0	27.0	29.0	28.0	29.5	27.5	28.0	26.5
11	20.0	19.0	22.5	21.5	28.0	27.0	29.5	28.0	29.5	28.0	28.0	26.5
12	21.0	20.0	23.0	21.5	28.0	27.0	29.5	28.0	29.0	28.0	27.5	26.5
13	21.0	20.0	23.5	21.5	28.5	26.5	29.0	28.0	29.0	27.5	27.5	26.5
14	21.5	20.5	23.5	22.0	29.0	27.0	30.0	28.0	29.0	28.0	27.5	26.5
15	22.0	21.0	24.0	22.0	30.0	27.5	30.5	29.0	29.0	28.0	27.5	26.5
16	22.0	21.5	23.0	21.5	---	---	30.5	29.5	29.5	27.5	27.5	26.0
17	22.0	21.5	23.5	22.0	---	---	30.5	29.5	29.5	28.0	27.5	26.0
18	23.0	22.0	24.5	22.5	---	---	30.5	29.5	29.5	28.5	26.0	25.0
19	23.5	22.0	24.0	23.0	---	---	30.0	29.0	28.5	27.5	25.0	24.0
20	23.5	22.0	24.0	22.5	---	---	29.5	29.0	28.0	27.0	24.5	23.5
21	23.0	21.5	24.0	22.5	---	---	30.0	29.0	27.5	26.5	24.5	23.5
22	22.0	21.5	24.0	22.0	---	---	30.0	29.0	26.5	26.0	25.0	24.0
23	22.5	21.5	24.0	22.5	---	---	30.0	29.0	26.0	24.5	25.5	24.0
24	22.5	21.5	24.5	22.5	---	---	30.0	29.0	26.5	24.5	25.0	24.5
25	22.0	21.5	24.5	23.5	---	---	30.5	29.0	26.5	25.5	25.0	24.0
26	22.0	21.5	24.0	23.5	---	---	31.0	29.5	27.0	26.0	25.0	23.5
27	22.5	21.5	25.0	23.5	---	---	31.0	30.0	26.5	26.0	25.0	24.0
28	23.0	22.0	25.0	23.5	---	---	31.0	29.5	26.5	26.0	25.0	24.0
29	23.0	22.0	25.0	23.5	---	---	31.0	30.0	27.0	26.0	25.0	24.0
30	24.0	22.5	26.0	24.0	---	---	30.5	29.5	27.0	26.0	25.5	24.5
31	---	---	26.0	24.5	---	---	29.5	28.5	28.0	26.5	---	---
MONTH	24.0	17.5	26.0	21.5	30.0	24.5	31.0	27.0	29.5	24.5	28.5	23.5
YEAR	31.0	5.0										

02353000 FLINT RIVER AT NEWTON, GA.

LOCATION.—Lat 31°18'34", long 84°20'06", Baker-Mitchell County line, Hydrologic Unit 03130008, on downstream side of pier of bridge on State Highway 37 at Newton, 1 mi (1.6 km) downstream from Coolewahee Creek, and at mile 69.5 (111.8 km).

DRAINAGE AREA.—5,740 mi² (14,900 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—April 1938 to September 1950 (monthly discharge only for some periods, published in WSP 1304), October 1956 to current year.

GAGE.—Water-stage recorder. Datum of gage is 110.20 ft (33.589 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Nov. 12, 1956, nonrecording gage at same site and datum.

REMARKS.—Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft (9.25 hm3); and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft (43.2 hm3). Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.—37 years, 6,997 ft^3/s (198 m^3/s), 16.55 in/yr (420 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 66,600 ft^3/s (1,890 m^3/s) Mar. 9, 1966, gage height, 34.9 ft (10.64 m); minimum, 790 ft^3/s (22.4 m^3/s) Oct. 20, Nov. 10, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1893, 41.3 ft (12.59 m) Jan. 21, 1925, from floodmarks; discharge, 94,000 ft^3/s (2,660 m^3/s).

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 20,000 ft^3/s (566 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 18	1400	*25500	722	19.87	6.056
Apr. 7	1900	22500	637	18.29	5.575

Minimum discharge, 1,270 ft^3/s (36.0 m^3/s) Sept. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2250	3260	3510	3070	3190	5520	4790	3890	2610	1550	1450	1520
2	2870	2880	3630	2560	2610	5360	8000	3300	2970	1560	1470	1720
3	2810	2530	3310	3040	3050	5650	13100	2340	2860	1560	1450	1880
4	4040	3040	2960	2670	3760	5230	16500	2020	2920	1540	1610	2120
5	4300	2980	3340	1850	3730	6240	17600	2860	3660	1560	1610	1920
6	2940	2860	2760	3340	3090	5100	19500	3210	3460	1980	1420	1940
7	3410	2990	2060	3110	2780	6210	22000	2440	2700	2080	1380	2440
8	2870	3050	1850	2340	3180	6580	20500	2860	2320	2190	1400	2070
9	2830	2400	3010	3000	3720	6560	13500	2750	2780	2390	1600	2110
10	2400	2090	2660	2960	3270	5970	8060	2780	2960	2060	1750	2580
11	2320	2530	3100	2360	5020	6030	6500	2420	3360	2030	2040	2140
12	2190	3270	3700	2580	7260	5340	6590	3220	2770	1770	2020	1550
13	1690	2860	3540	3760	10400	4840	5970	2660	2080	1540	2190	1370
14	1850	2550	2750	4130	14600	4410	5180	2590	2470	1660	2100	1370
15	2090	2220	2590	2870	18400	3930	5270	2960	2380	2030	2210	1640
16	2120	2110	3790	2270	21500	4030	4720	2030	2680	2610	2050	1740
17	2280	1640	3980	2460	23800	4950	4340	1730	2850	2530	1900	1760
18	2220	2520	3920	2630	25200	4290	4290	1760	2890	1980	1860	1570
19	2050	3110	3670	2830	24300	4160	3510	3460	2660	1530	1830	1450
20	1630	3280	2830	1840	18300	4900	4150	2820	2120	1450	1790	1350
21	1610	2680	2310	2680	12100	4350	4460	2450	2360	1430	1710	1330
22	1960	2110	2770	3130	12300	4690	4010	2330	1970	1410	1650	1330
23	2150	1960	3720	3440	11000	6000	4090	1990	1990	1400	1590	1320
24	2210	1710	3180	3100	11100	6210	3980	2030	2500	1410	1610	1330
25	2150	2200	2170	2450	11200	5950	5040	1670	2520	1530	1470	1490
26	1930	2470	2100	1840	9970	6190	4280	2340	1930	1480	1550	1520
27	1650	3370	2560	2680	7680	6050	4180	3040	1940	1430	1420	1300
28	1820	2830	2570	2190	6410	5280	4760	2510	1890	1390	1540	1280
29	2740	2920	3000	2260	---	4360	3960	3270	1650	1370	1750	1270
30	3110	3400	2640	3120	---	4600	3580	2890	1590	1390	1790	1300
31	3170	---	2980	3260	---	6010	---	2480	---	1450	1420	---
TOTAL	75660	79820	92960	85820	282920	164990	236410	81100	75840	53290	52630	49710
MEAN	2441	2661	2999	2768	10100	5322	7880	2616	2528	1719	1698	1657
MAX	4300	3400	3980	4130	25200	6580	22000	3890	3660	2610	2210	2580
MIN	1610	1640	1850	1840	2610	3930	3510	1670	1590	1370	1380	1270
CFSM	.43	.46	.52	.48	1.76	.93	1.37	.46	.44	.30	.30	.29
IN.	.49	.52	.60	.56	1.83	1.07	1.53	.53	.49	.35	.34	.32

CAL YR 1980 TOTAL 2301360 MEAN 6288 MAX 34500 MIN 1610 CFSM 1.10 IN 14.91
WTR YR 1981 TOTAL 1331150 MEAN 3647 MAX 25200 MIN 1270 CFSM .64 IN 8.63

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to June 1979, May 1981 to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
MAY				
15...	1145	3070	13	108
15...	1215	3070	11	91
JUL				
06...	1230	1900	6	31
06...	1245	1900	5	26
24...	1300	1400	5	19
24...	1315	1400	5	19
AUG				
25...	0945	1470	10	310
25...	1000	1470	10	310

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.

LOCATION.—Lat 31°22'58", long 84°32'52", Baker County, Hydrologic Unit 03130009, on downstream end of left bank pier of bridge on State Highway 216 at Milford, 2.2 mi (3.5 km) upstream from Alligator Creek, and 5.5 mi (8.8 km) upstream from Chickasawhatchee Creek.

DRAINAGE AREA.—620 mi^2 (1,610 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—August 1905 to December 1907, October 1939 to current year.

GAGE.—Water-stage recorder. Datum of gage is 150.3 ft (45.811 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Aug. 29, 1905, to Dec. 31, 1907, nonrecording gage at several sites within 450 ft (137 m) of present site at various datums. Oct. 1, 1939, to Nov. 10, 1941, nonrecording gage at site 100 ft (30 m) downstream at present datum.

REMARKS.—Records good. Discharges during growing season affected by undetermined amount of irrigation withdrawal. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.—44 years, 792 ft^3/s (22.4 m^3/s), 17.35 in/yr (441 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 11,900 ft^3/s (337 m^3/s) Jan. 27, 1978, gage height, 15.08 ft (4.596 m); minimum, 49 ft^3/s (1.39 m^3/s) July 27, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in July 1916 reached a stage of 17.2 ft (5.24 m), from information by local resident, discharge, 15,500 ft^3/s (439 m^3/s).

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 3,000 ft^3/s (85.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 15	0300	*3260	92.3	6.36	1.939

Minimum discharge, 49 ft^3/s (1.39 m^3/s) July 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	646	452	347	433	491	877	271	250	93	130	270
2	353	570	396	338	407	477	962	265	208	125	195	381
3	425	469	361	332	444	468	955	252	229	244	213	300
4	387	383	347	327	514	465	855	249	344	353	218	290
5	316	336	339	321	529	570	753	239	468	364	233	274
6	270	314	331	320	431	750	653	230	521	288	191	272
7	245	303	326	332	429	841	574	242	541	250	163	263
8	231	292	324	383	365	848	534	290	545	231	155	235
9	217	289	323	459	437	708	513	339	576	265	210	215
10	217	286	327	475	402	602	482	317	525	221	360	187
11	215	283	336	418	510	518	455	279	500	179	578	166
12	209	280	355	372	726	475	442	243	506	179	823	152
13	203	276	384	336	1180	458	427	215	396	174	817	143
14	196	269	370	319	2480	450	419	179	372	146	694	147
15	190	269	347	309	2920	445	391	175	431	140	756	140
16	196	276	338	310	1670	446	373	171	361	132	466	149
17	196	296	336	313	970	487	359	160	294	107	322	169
18	195	330	345	309	800	530	352	145	230	87	254	185
19	202	336	349	300	813	538	334	138	187	80	219	173
20	207	325	340	294	876	655	334	147	166	74	203	157
21	214	310	331	298	924	702	324	157	147	79	200	147
22	224	302	326	309	941	689	333	174	140	81	213	138
23	219	300	320	318	907	779	383	160	134	88	280	131
24	217	308	322	315	810	867	406	154	138	76	304	131
25	229	367	339	306	695	918	399	130	143	65	297	129
26	247	454	391	309	614	863	393	124	136	52	271	128
27	270	508	407	309	557	787	345	146	121	50	239	124
28	291	517	383	313	515	697	303	260	100	61	219	124
29	359	539	362	386	---	571	276	344	99	98	206	120
30	513	515	357	469	---	580	275	407	98	94	207	118
31	629	---	353	485	---	791	---	383	---	107	210	---
TOTAL	8341	10948	10917	10731	23299	19466	14481	6985	8906	4583	9846	5558
MEAN	269	365	352	346	832	628	483	225	297	148	318	185
MAX	629	646	452	485	2920	918	962	407	576	364	823	381
MIN	190	269	320	294	365	445	275	124	98	50	130	118
CFSM	.43	.59	.57	.56	1.34	1.01	.78	.36	.48	.24	.51	.30
IN.	.50	.66	.66	.64	1.40	1.17	.87	.42	.53	.27	.59	.33

CAL YR 1980 TOTAL 259220 MEAN 708 MAX 7240 MIN 122 CFSM 1.14 IN 15.55
WTR YR 1981 TOTAL 134061 MEAN 367 MAX 2920 MIN 50 CFSM .59 IN 8.04

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 21...	1430	214	62	57	7.4	7.2	19.0	8.5
AUG 17...	1300	308	68	68	7.2	6.9	27.0	6.3

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
OCT 21...	2	1.9	22	.00	7.2	.9	2.2	.6	22	.2
AUG 17...	50	14	27	9.0	9.2	.9	2.2	.9	18	2.3

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT 21...	3.9	.1	8.2	45	26.0	.50	.020	.14	.16	.00
AUG 17...	4.0	<.1	9.0	61	50.7	.47	.030	.63	.66	.21

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT 21...	.25	.66	.020	.020	20	0	0	2	10	1
AUG 17...	.45	1.1	.030	.040	10	1	1	1	<10	2

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 21...	390	2	0	30	<.1	<.1	0	2	3.0
AUG 17...	840	7	<1	100	.4	<.1	<1	7	7.0

02356000 FLINT RIVER AT BAINBRIDGE, GA.

LOCATION.—Lat 30°54'41", long 84°34'48", Decatur County, Hydrologic Unit 03130008, on downstream side of highway bridge on Business Route 27, 0.2 mi (0.3 km) downstream from Seaboard Coast Line Railroad bridge, at mile 29.0, and 29.2 mi (47.0 km) upstream from Jim Woodruff Dam.

DRAINAGE AREA.—7,570 mi^2 (19,600 km^2), approximately.

PERIOD OF RECORD.—Discharge: October 1907 to December 1913, October 1928 to September 1971. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

Chemical analyses: February 1968 to September 1973.

Annual peaks: Water years 1972-76, 1978-81.

Continuous gage-height record: August 1977 to current year.

GAGE.—Water-stage recorder. Datum of gage is 58.06 ft (17.697 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 31, 1913, nonrecording gage at same site at datum 0.3 ft (0.09 m) higher. Oct. 1, 1928, to Jan. 14, 1929, nonrecording gage at present site and datum. Auxiliary water-stage recorder at site 6.4 mi (10.3 km) upstream Jan. 15, 1957, to September 1971.

REMARKS.—Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft (9.25 hm^3); and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft (43.2 hm^3). Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.—49 years (water years 1908-13, 1929-71), 8,740 ft^3/s (248 m^3/s), 15.68 in/yr (398 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 83,200 ft^3/s (2,360 m^3/s) Mar. 21, 1929, gage height, 37.73 ft (11.500 m); minimum daily discharge, 1,340 ft^3/s (37.9 m^3/s) Sept. 25, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1893, 40.0 ft, present datum, Jan. 24, 1925, discharge, 101,000 ft^3/s (2,860 m^3/s), from rating curve extended above 70,000 ft^3/s (1,980 m^3/s) on basis of slope-conveyance studies.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 23,800 ft^3/s (674 m^3/s) Feb. 19, gage height, 22.74 ft (6.931 m).

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.45	17.65	18.02	18.11	17.71	19.62	19.70	19.23	18.29	17.51	17.04	18.45
2	17.49	17.47	18.15	18.03	17.68	19.23	19.49	18.98	18.30	17.42	16.83	18.54
3	17.52	17.25	18.38	17.88	17.59	19.35	20.25	18.69	18.48	17.51	16.62	18.59
4	17.63	17.36	18.35	17.70	17.69	19.52	20.87	18.40	18.62	17.62	16.73	18.59
5	17.62	17.50	18.22	17.40	17.86	19.96	21.09	18.34	18.81	17.36	16.83	18.58
6	17.35	17.57	18.08	17.78	17.94	19.72	21.38	18.39	18.99	17.02	17.01	18.36
7	17.29	17.65	17.82	18.45	17.92	19.51	21.94	18.38	18.78	17.01	17.46	18.17
8	17.45	17.71	17.56	18.41	17.73	19.24	22.16	18.22	18.55	17.05	17.59	18.24
9	17.53	17.51	17.61	18.27	17.62	19.05	21.49	18.14	18.67	17.21	17.31	18.28
10	17.67	17.26	17.79	18.08	17.64	19.08	20.25	17.96	18.80	17.33	17.06	18.34
11	17.73	17.26	17.85	17.85	18.38	19.13	19.89	17.88	18.89	17.40	17.14	18.42
12	17.49	17.36	18.02	17.65	19.02	19.15	19.70	17.81	19.00	17.11	17.31	18.58
13	17.19	17.48	18.12	17.88	19.68	19.16	19.54	17.91	19.02	16.80	17.64	18.29
14	17.14	17.57	17.94	17.92	20.49	19.10	19.64	18.01	18.73	16.93	17.84	18.00
15	17.22	17.60	17.70	17.78	21.14	18.90	19.62	18.09	18.55	17.01	18.19	18.20
16	17.63	17.37	17.82	17.80	21.85	18.87	19.51	18.13	18.56	17.10	18.47	18.29
17	17.72	17.09	18.01	17.82	22.23	18.86	19.49	17.83	18.64	17.24	18.28	18.33
18	17.76	17.27	18.15	17.64	22.59	19.15	19.50	17.63	18.70	17.24	18.28	18.36
19	17.54	17.33	18.29	17.45	22.68	19.15	19.26	17.84	18.73	16.89	18.33	18.30
20	17.27	17.45	18.31	17.44	22.35	19.46	19.15	18.01	18.70	16.62	18.34	18.01
21	17.27	17.56	17.99	17.63	21.19	19.46	19.15	17.87	18.38	16.70	18.39	17.70
22	17.32	17.51	17.76	17.69	20.58	19.33	19.26	17.84	18.09	16.74	18.44	17.67
23	17.36	17.25	17.93	17.83	20.60	19.37	19.20	17.77	18.10	16.80	18.20	17.69
24	17.43	17.11	18.13	17.88	20.36	19.55	19.24	17.48	18.19	16.83	18.00	17.70
25	17.57	17.12	18.15	17.67	20.54	19.69	19.33	17.19	18.28	16.85	18.30	17.70
26	17.25	17.20	18.16	17.40	20.41	19.78	19.16	17.20	18.32	16.52	18.57	17.71
27	16.93	18.01	18.17	17.39	20.08	19.81	18.93	17.62	18.24	16.19	18.74	17.46
28	17.11	18.26	18.01	17.59	20.02	19.69	18.94	17.89	17.84	16.24	18.80	17.22
29	17.32	18.33	17.82	17.63	---	19.38	18.98	18.11	17.53	16.43	18.82	17.48
30	17.52	18.16	17.92	17.75	---	19.37	19.09	18.38	17.49	16.66	18.61	17.58
31	17.67	---	17.99	17.77	---	19.58	---	18.51	---	16.96	18.38	---
MEAN	17.43	17.51	18.01	17.79	19.70	19.36	19.84	18.06	18.48	16.98	17.86	18.09
MAX	17.76	18.33	18.38	18.45	22.68	19.96	22.16	19.23	19.02	17.62	18.82	18.59
MIN	16.93	17.09	17.56	17.39	17.59	18.86	18.93	17.19	17.49	16.19	16.62	17.22

WTR YR 1981 MEAN 18.24 MAX 22.68 MIN 16.19

02356015 FLINT RIVER BELOW BAINBRIDGE, GA.

LOCATION.—Lat 30°53'34", long 84°36'38", Decatur County, Hydrologic Unit 03130008, at Bainbridge, 0.8 mi (1.3 km) downstream from State Docks, and at mile 26.5 (42.6 km).

DRAINAGE AREA.—7,570 mi^2 (19,600 km^2), approximately.

PERIOD OF RECORD.—July 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	PH (UNITS)	PH LAB (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT						
13...	0945	7.2	7.7	20.0	21.5	9.4
NOV						
18...	1115	--	7.7	17.5	19.0	7.5
DEC						
10...	1050	7.3	7.6	20.5	16.5	8.1
JAN						
13...	1125	--	7.8	4.0	8.0	9.8
FEB						
11...	1115	7.4	7.6	14.0	12.0	11.5
MAR						
10...	1145	7.3	7.5	16.0	15.5	8.3
APR						
14...	1045	--	7.5	27.0	21.0	7.0
MAY						
13...	1105	--	7.8	26.5	23.0	5.7
JUN						
03...	1100	7.7	7.8	31.5	25.0	5.2
JUL						
14...	1045	8.2	8.3	34.5	28.0	5.3
AUG						
11...	1025	7.9	8.0	31.0	26.5	7.4
SEP						
15...	1035	8.0	7.9	28.0	24.5	8.2

DATE	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
13...	136	10	5	.8	40	53	.81	.050	.060	<1.0
NOV										
18...	139	10	3	.6	55	55	.85	.100	.060	1.5
DEC										
10...	144	20	5	1.2	90	54	.92	.260	.040	3.0
JAN										
13...	124	20	5	<1.0	160	42	.66	.150	.070	1.0
FEB										
11...	106	20	8	.7	9300	32	.50	.140	.060	2.0
MAR										
10...	96	80	20	1.2	40	26	.40	.220	.070	3.5
APR										
14...	105	90	15	1.4	40	40	.60	.330	.080	5.0
MAY										
13...	151	30	7	1.2	4300	57	.90	.200	.090	<1.0
JUN										
03...	145	40	8	.8	930	49	.72	.070	.050	1.0
JUL										
14...	147	20	5	.8	<30	56	.40	.030	.060	3.5
AUG										
11...	176	20	4	1.0	<30	63	.92	.050	.080	1.0
SEP										
15...	167	20	3	1.6	110	58	.78	.200	.060	--

LAKES IN APALACHICOLA RIVER BASIN

02334400 LAKE SIDNEY LANIER.—Lat 34°04'30", long 84°04'20", Forsyth County, Hydrologic Unit 03130001, at forebay of dam on Chattahoochee River, 2.5 mi (4.0 km) upstream from bridge on State Highway 20, 4.5 mi (7.2 km) northwest of Buford, Ga., and at mile 348.3 (560.4 km). DRAINAGE AREA, 1,040 mi^2 (2,690 km^2), approximately. PERIOD OF RECORD, January 1956 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Lake is formed by a rolled-fill earth dam; storage began in January 1956; dam completed in June 1957. Usable capacity, 1,686,000 acre-ft (2,080 hm^3) between elevations 1,035 and 1,085 ft (315.5 and 330.7 m). Dead storage, 868,000 acre-ft (1,070 hm^3). Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 2,205,200 acre-ft (2,720 hm^3) Apr. 14, 1964, elevation, 1,077.20 ft (328.331 m); minimum, after beginning operation, 1,480,800 acre-ft (1,830 hm^3) Dec. 18, 1970, elevation, 1,057.53 ft (322.335 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 1,825,600 acre-ft (2,250 hm^3) June 13-14, elevation, 1,067.55 ft (325.389 m); minimum, 1,537,100 acre-ft (1,900 hm^3) September 30, elevation, 1,059.27 ft (322.865 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1065.00	1733100	-	-
Oct. 31................	1063.54	1681900	-51200	-833
Nov. 30................	1063.44	1678400	-3500	-59
Dec. 31................	1062.93	1660600	-17800	-289
CAL YR 1980	-	-	-260600	-359
Jan. 31................	1062.41	1642600	-18000	-293
Feb. 28................	1064.70	1722500	+79900	+1439
Mar. 31................	1065.27	1742800	+20300	+330
Apr. 30................	1065.86	1764100	+21300	+358
May 31................	1066.56	1789300	+25200	+410
June 30................	1066.92	1802200	+12900	+217
July 31................	1065.16	1738900	-63300	-1029
Aug. 31................	1062.20	1635500	-103400	-1682
Sept. 30................	1059.27	1537100	-98400	-1654
WTR YR 1981	-	-	-196000	-271

02339400 WEST POINT LAKE.—Lat 32°55'05", long 85°11'17", Troup County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 2.3 mi (3.7 km) upstream from Oseligee Creek, 3.0 mi (4.8 km) north of West Point, Ga., 3.2 mi (5.1 km) upstream from bridge on U.S. Highway 29, and at mile 201.4 (324.1 km). DRAINAGE AREA, 3,440 mi^2 (8,910 km^2), approximately. PERIOD OF RECORD, October 1974 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Lake is formed by concrete gravity dam with earth dikes at either side. Spillway, crest elevation, 597 ft (181.97 m) is equipped with six taintor gages 50 ft (15.2 m) wide by 41 ft (12.5 m) high. Storage began Oct. 16, 1974, and lake reached maximum power pool, 635 ft (193.55 m) on June 10, 1975. Total capacity at elevation, 641 ft (195.38 m); maximum flood control pool, 774,800 acre-ft (955 hm^3). Capacity at elevation, 635 ft (193.55 m), maximum power pool, 604,500 acre-ft (745 hm^3). Dead storage below elevation 620 ft (188.98 m), minimum power pool, 298,400 acre-ft (368 hm^3). Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 690,700 acre-ft (852 hm^3) April 16, 1979, elevation, 638.17 ft (194.514 m); minimum, since first filling, 323,100 acre-ft (398 hm^3), Sept. 14, 1981, elevation, 621.55 ft (189.448 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 654,800 acre-ft (807 hm^3) May 28, elevation, 636.89 ft (194.124 m); minimum, 323,100 acre-ft (398 hm^3) Sept. 24, elevation, 621.55 ft (189.448 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	624.30	370700	-	-
Oct. 31................	624.20	368800	-1900	-31
Nov. 30................	626.40	410200	+41400	+696
Dec. 31................	626.00	402400	-7800	-127
CAL YR 1980	-	-	-7800	-11
Jan. 31................	625.20	387200	-15200	-247
Feb. 28................	629.00	463300	+76100	+1370
Mar. 31................	632.70	547100	+83800	+1363
Apr. 30................	634.80	599400	+52300	+879
May 31................	636.70	649700	+50300	+818
June 30................	635.20	609700	-40000	-672
July 31................	630.60	498300	-111400	-1812
Aug. 31................	625.00	383500	-114800	-1867
Sept. 30................	621.80	327300	-56200	-945
WTR YR 1981	-	-	-43400	-60

LAKES IN APALACHICOLA RIVER BASIN--Continued

02341000 LAKE HARDING.--Lat 32°39'46", long 85°05'27", Harris County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 3.3 mi (5.3 km) upstream from Mulberry Creek, 15 mi (24 km) northwest of Columbus, Ga., and at mile 178.0 (286.4 km). DRAINAGE AREA, 4,240 mi² (11,000 km²), approximately. PERIOD OF RECORD, October 1929 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam with earth fill abutments. Spillway, crest elevation, 500.0 ft (152.40 m) is equipped with 19 taintor gates 25 ft (7.62 m) wide by 21 ft (6.40 m) high and two trash gages 11 ft (3.35 m) wide by 9 ft (2.74 m) high. Storage began in 1926; water in reservoir first reached minimum pool elevation in 1926. Total capacity at elevation 521.0 ft (158.80 m), top of gates, is 181,000 acre-ft (223 hm³), of which 136,000 acre-ft (168 hm³) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	520.4	177000	-	-
Oct. 31................	519.4	171000	-6000	-98
Nov. 30................	518.0	163000	-8000	-134
Dec. 31................	516.7	156000	-7000	-114
CAL YR 1980	-	-	-20000	-28
Jan. 31................	516.2	153000	-3000	-49
Feb. 28................	519.1	170000	+17000	+306
Mar. 31................	521.1	182000	+12000	+195
Apr. 30................	519.4	171000	-11000	-185
May 31................	516.3	154000	-17000	-276
June 30................	520.3	177000	+23000	+387
July 31................	519.9	174000	-3000	-49
Aug. 31................	519.0	169000	-5000	-81
Sept. 30................	519.4	171000	+2000	+34
WTR YR 1981	-	-	-6000	-8

† Elevation at 0700 on day following that shown in first column.

02343240 WALTER F. GEORGE LAKE.--Lat 31°37'27", long 85°04'03", Clay County, Hydrologic Unit 03130003, at forebay of dam on Chattahoochee River, 1.6 mi (2.6 km) upstream from bridge on State Highway 37, 1 mi (1.6 km) north of Ft. Gaines, Ga., and at mile 75.0 (120.7 km). DRAINAGE AREA, 7,460 mi² (19,300 km²), approximately. PERIOD OF RECORD, May 1962 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Reservoir is formed by concrete gravity dam and navigation lock with earth dikes on either side. The non-overflow section at the dam includes a powerhouse. Filling began in May 1962. Power operations commenced on Mar. 13, 1963. The spillway, crest elevation, 163.0 ft (49.68 m), is equipped with 14 taintor gates 42 ft (12.80 m) wide by 29 ft (8.84 m) high. Total capacity at elevation 190.0 ft (57.91 m), full summer pool, 934,400 acre-ft (1,150 hm³), of which 244,400 acre-ft (301 hm³) between elevations 190.0 and 184.0 ft (57.91 and 56.08 m), minimum pool, is controlled storage. Lake is used for navigation and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 993,700 acre-ft (1,230 hm³) May 20, 1969, elevation, 191.28 ft (58.302 m); minimum, after first filling, 660,400 acre-ft (814 hm³) Apr. 23, 1965, elevation, 183.17 ft (55.830 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 979,600 acre-ft (1,210 hm³) Apr. 3, elevation, 190.98 ft (58.211 m); minimum, 709,100 acre-ft (874 hm³) Nov. 28, elevation, 184.52 ft (56.242 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	185.40	750000	-	-
Oct. 31................	186.30	777400	+27400	+446
Nov. 30................	184.90	723300	-54100	-909
Dec. 31................	185.10	730900	+7600	+124
CAL YR 1980	-	-	-91000	-125
Jan. 31................	185.00	727100	-3800	-62
Feb. 28................	187.80	838700	+111600	+2009
Mar. 31................	189.60	916400	+77700	+1264
Apr. 30................	188.90	885600	-30800	-518
May 31................	188.50	868300	-17300	-281
June 30................	187.00	805500	-62800	-1055
July 31................	186.00	765600	-39900	-649
Aug. 31................	186.30	777400	+11800	+192
Sept. 30................	185.20	734700	-42700	-718
WTR YR 1981	-	-	-15300	-21

LAKES IN APALACHICOLA RIVER BASIN--Continued

02357500 LAKE SEMINOLE.--Lat 30°42'33", long 84°51'45", Gadsden County, Fla., Hydrologic Unit 03130004, on right upstream lock wall of Jim Woodruff Dam on Chattahoochee River, 0.6 mi (1.0 km) upstream from bridge on U.S. Highway 90, and 1.5 mi (2.4 km) northwest of Chattahoochee, Fla. DRAINAGE AREA, 17,100 mi^2 (44,300 km^2), approximately. PERIOD OF RECORD, October 1954 to current year. Prior to October 1959, published as Jim Woodruff Reservoir at Chattahoochee. REVISIONS, WSP 1554: 1955-57. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 22, 1957, nonrecording gage at same site at datum 53.96 ft (16.45 m) higher; gage readings have been reduced to elevations above mean sea level.

Lake is formed by earthfill dam with concrete fixed-crest spillway, a center channel spillway with 16 vertical lift gates 40 ft (12.2 m) long and 30.5 ft (9.30 m) high, and a side channel navigation lock 82 ft (25 m) wide. Gates closed on May 20, 1954; filling of pool accomplished in several stages between that date and Feb. 4, 1957, when the pool first reached normal operating level, 77.0 ft (23.47 m). Total capacity at elevation 77.0 ft (23.47 m), normal pool, is 367,300 acre-ft (453 hm^3), of which 36,170 acre-ft (44.6 hm^3) between elevations 77.0 and 76.0 ft (23.47 and 23.16 m) is used for pondage. Lake is used for navigation and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 433,000 acre-ft (534 hm^3) Apr. 7, 8, 1960, elevation, 78.66 ft (23.976 m); minimum after Feb. 4, 1957, 272,100 acre-ft (335 hm^3) Nov. 27, 1978, elevation, 74.18 ft (22.610 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 399,400 acre-ft (492 hm^3) Feb. 14, elevation, 77.83 ft (23.723 m); minimum, 273,300 acre-ft (337 hm^3) July 27, elevation, 74.22 ft (22.622 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30	75.64	318800	-	-
Oct. 31	75.77	323200	+4400	+72
Nov. 30	76.13	335700	+12500	+210
Dec. 31	76.14	336100	+400	+7
CAL YR 1980	-	-	-11000	-15
Jan. 31	75.88	327000	-9100	-148
Feb. 28	77.51	386800	+59800	+1077
Mar. 31	77.54	388000	+1200	+20
Apr. 30	77.30	378700	-9300	-1[illegible]
May 31	76.48	348200	-30500	-4[illegible]6
June 30	75.65	319100	-29100	-489
July 31	75.32	308100	-11000	-179
Aug. 31	76.53	350000	+41900	+681
Sept. 30	75.82	324900	-25100	-422
WTR YR 1981	-	-	+6100	+8

02380500 COOSAWATTEE RIVER NEAR ELLIJAY, GA.

LOCATION.—Lat 34°40'18", long 84°30'31", Gilmer County, Hydrologic Unit 03150102, on right bank 0.5 mi (0.8 km) downstream from State Highway 5, 2 mi (3.2 km) southwest of Ellijay, and 2.2 mi (3.5 km) downstream from confluence of Cartecay and Ellijay Rivers.

DRAINAGE AREA.—236 mi^2 (611 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1938 to December 1949, occasional low-flow measurements 1959, 1961-62. June 1963 to current year.

REVISED RECORDS.—WRD GA-80-1: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 1,216.04 ft (370.649 m) National Geodetic Vertical Datum of 1929. Prior to June 10, 1940, nonrecording gage at site 0.5 mi (0.8 km) upstream at datum 8.04 ft (2.45 m) higher.

REMARKS.—Records good.

AVERAGE DISCHARGE.—29 years (1938-49, 1963-81), 522 ft^3/s (14.8 m^3/s), 30.04 in/yr (763 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 17,000 ft^3/s (481 m^3/s) Oct. 4, 1964, gage height, 17.63 ft (5.374 m); minimum, 101 ft^3/s (2.68 m^3/s) several days in October 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1938, 20.7 ft (6.31 m) Mar. 19, 1951, from floodmark.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 2,800 ft^3/s (79.3 m^3/s) Feb. 11, gage height, 4.58 ft (1.396 m), no peaks above base of 3,500 ft^3/s (99.1 m^3/s); minimum discharge, 125 ft^3/s (3.54 m^3), Sept. 29, 30, gage height, 1.22 ft (0.372 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	501	258	252	195	202	364	757	287	479	239	172	248
2	370	245	245	193	480	351	635	282	479	255	213	227
3	309	235	239	190	350	331	507	274	706	254	206	172
4	271	240	231	188	273	357	438	265	1170	244	181	219
5	255	240	228	180	248	562	702	261	1030	268	180	247
6	243	232	222	182	234	468	593	272	695	343	178	273
7	237	227	220	204	227	406	498	281	714	350	193	564
8	233	224	217	194	225	375	440	271	775	270	205	283
9	225	222	239	187	217	355	436	254	598	240	186	212
10	221	216	360	184	918	343	416	263	508	225	165	183
11	216	210	297	184	1970	334	383	287	464	216	192	167
12	210	206	260	183	830	324	365	269	417	212	201	160
13	203	206	247	182	530	316	350	253	393	204	185	157
14	200	206	238	182	440	308	339	263	371	196	166	151
15	196	370	231	181	390	293	335	384	343	189	158	165
16	199	420	236	180	360	308	323	288	331	192	156	229
17	199	307	229	178	385	289	322	270	321	201	156	181
18	248	330	217	185	846	322	364	280	310	187	158	157
19	487	293	213	184	1700	333	357	415	302	203	154	152
20	293	273	209	187	1170	298	331	352	302	200	155	151
21	242	257	206	218	766	289	318	307	302	181	190	148
22	228	247	203	207	610	305	307	277	286	171	175	145
23	220	266	203	195	604	313	354	260	275	159	155	144
24	216	383	236	187	500	293	435	250	262	155	152	141
25	264	366	253	184	448	285	353	243	267	180	146	138
26	249	311	223	182	414	275	323	308	288	161	149	137
27	231	305	214	190	386	268	308	1010	260	154	139	134
28	437	307	210	197	367	263	304	1070	250	146	132	130
29	349	283	209	183	---	259	307	557	242	142	132	126
30	304	263	205	183	---	1150	305	418	238	152	142	127
31	282	---	197	185	---	772	---	411	---	150	144	---
TOTAL	8338	8148	7189	5834	16090	11509	12205	10882	13378	6439	5216	5668
MEAN	269	272	232	188	575	371	407	351	446	208	168	189
MAX	501	420	360	218	1970	1150	757	1070	1170	350	213	564
MIN	196	206	197	178	202	259	304	243	238	142	132	126
CFSM	1.14	1.15	.98	.80	2.44	1.57	1.73	1.49	1.89	.88	.71	.80
IN.	1.31	1.28	1.13	.92	2.54	1.81	1.92	1.72	2.11	1.01	.82	.89

CAL YR 1980 TOTAL 229437 MEAN 627 MAX 5400 MIN 192 CFSM 2.66 IN 36.17
WTR YR 1981 TOTAL 110896 MEAN 304 MAX 1970 MIN 126 CFSM 1.29 IN 17.48

02380500 COOSAWATTEE RIVER NEAR ELLIJAY, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—March 1968 to March 1972, December 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
16...	1615	199	14.0	6	3.2
NOV					
26...	1040	310	7.0	12	10
JAN					
09...	1445	188	3.0	7	3.6
FEB					
20...	1100	1210	9.5	81	265
APR					
02...	1220	636	12.5	40	69
MAY					
14...	1500	242	17.0	17	11
JUN					
25...	1130	268	--	13	9.4
AUG					
06...	1345	169	25.0	23	10
SEP					
17...	0845	188	18.0	43	22

02381600 FAUSETT CREEK NEAR TALKING ROCK, GA.

LOCATION.—Lat 34°34'13", Long 84°28'08", Gilmer County, Hydrologic Unit 03150102, on right bank 25 ft (7.6 m) upstream from culvert on county road, 3.6 mi (5.8 km) upstream from mouth, and 4.5 mi (7.2 km) northeast of Talking Rock.

DRAINAGE AREA.—9.99 mi² (25.9 km²).

PERIOD OF RECORD.—Annual maximum, water years 1966-74, October 1974 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 1,320 ft (402 m), from topographic map.

REMARKS.—Records good except those for period of no gage-height record, Feb. 3-19 and those affected by a beaverdam, Aug. 23 to Sept. 7, Sept. 19-30, which are fair.

AVERAGE DISCHARGE.—7 years, 19.7 ft³/s (0.56 m³/s), 26.78 in/yr (680 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 3,160 ft³/s (89.5 m³/s) May 29, 1973, gage height, 16.96 ft (5.169 m), from floodmarks; minimum daily discharge, 3.0 ft³/s (0.085 m³/s) Sept. 30, 1981.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 260 ft³/s (7.36 m³/s) June 3, gage height, 3.29 ft (1.003 m), no peaks above base of 300 ft³/s (8.50 m³/s); minimum daily discharge, 3.0 ft³/s (0.085 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	8.2	7.6	6.3	23	10	28	7.6	23	6.4	4.6	12
2	8.0	7.8	7.4	6.3	10	9.3	20	7.7	27	7.3	5.1	8.0
3	7.2	7.6	7.3	6.3	8.5	9.3	16	7.6	62	7.2	4.4	5.5
4	6.8	7.7	7.3	6.3	7.2	14	15	7.3	55	7.6	5.7	6.0
5	6.6	7.6	7.3	6.2	6.5	17	40	7.2	24	8.9	4.5	6.0
6	6.5	7.5	7.2	6.2	6.0	13	23	7.2	16	14	6.0	5.2
7	6.4	7.4	7.2	6.6	5.8	12	18	7.3	29	9.3	6.2	10
8	6.2	7.3	7.0	6.3	5.6	11	16	6.6	23	6.5	5.2	7.3
9	6.1	7.3	8.0	6.1	5.5	11	16	6.2	16	5.9	4.5	5.3
10	6.0	7.3	10	6.1	75	10	14	6.1	14	5.7	4.3	4.1
11	5.9	7.3	7.9	6.0	30	9.8	13	6.0	12	5.7	5.0	4.2
12	5.7	7.3	7.5	6.0	17	9.5	13	5.9	11	5.7	6.2	4.1
13	5.9	7.3	7.3	6.0	13	9.4	12	5.9	10	5.3	5.4	4.1
14	5.9	7.3	7.3	5.9	11	8.9	11	6.8	9.6	5.1	4.5	4.0
15	5.9	24	7.3	5.9	10	9.0	10	8.1	8.8	5.0	4.3	5.3
16	6.0	12	7.5	5.9	8.8	9.0	10	6.7	8.4	4.8	4.3	6.1
17	5.9	9.6	7.2	5.8	20	8.7	10	6.5	8.0	4.6	4.3	4.2
18	14	9.6	7.0	5.8	40	11	10	6.5	8.0	4.5	4.1	4.1
19	23	8.6	6.9	5.8	55	9.9	10	13	7.9	4.5	3.9	4.0
20	8.7	8.2	6.9	6.3	25	9.1	11	8.2	7.6	4.3	4.1	4.0
21	7.7	7.8	6.9	6.7	15	8.9	10	7.0	7.5	4.0	6.1	4.0
22	7.3	7.6	6.9	6.0	14	9.3	9.4	6.3	7.3	3.7	4.7	3.9
23	7.1	8.4	6.9	5.9	14	9.8	12	5.9	6.9	3.6	4.1	3.9
24	7.1	11	8.2	5.8	12	9.3	11	5.6	6.8	3.6	3.9	3.8
25	9.9	9.2	7.5	5.7	11	9.2	9.5	5.5	6.6	3.6	3.7	3.7
26	7.8	8.5	7.1	5.5	10	9.0	8.8	11	7.2	3.4	3.6	3.6
27	7.6	8.7	6.9	5.8	9.8	8.8	8.3	24	6.4	3.4	3.5	3.5
28	15	8.3	6.9	5.6	9.5	8.5	8.0	16	6.2	3.3	3.4	3.4
29	9.5	7.8	6.7	5.5	---	8.6	8.8	9.0	6.1	3.3	3.4	3.2
30	9.7	7.6	6.4	5.6	---	69	8.2	7.6	6.1	3.6	4.5	3.0
31	8.7	---	6.4	5.8	---	24	---	27	---	3.6	4.0	---
TOTAL	255.1	261.8	225.9	186.0	478.2	385.3	410.0	269.3	447.4	167.4	141.5	149.5
MEAN	8.23	8.73	7.29	6.00	17.1	12.4	13.7	8.69	14.9	5.40	4.56	4.98
MAX	23	24	10	6.7	75	69	40	27	62	14	6.2	12
MIN	5.7	7.3	6.4	5.5	5.5	8.5	8.0	5.5	6.1	3.3	3.4	3.0
CFSM	.82	.87	.73	.60	1.71	1.24	1.37	.87	1.49	.54	.46	.50
IN.	.95	.97	.84	.69	1.78	1.43	1.53	1.00	1.67	.62	.53	.56

CAL YR 1980 TOTAL 8534.3 MEAN 23.3 MAX 280 MIN 4.9 CFSM 2.33 IN 31.78
WTR YR 1981 TOTAL 3377.4 MEAN 9.25 MAX 75 MIN 3.0 CFSM .93 IN 12.58

02382200 TALKING ROCK CREEK NEAR HINTON, GA.

LOCATION.--Lat 34°31'22", long 84°36'40", Pickens County, Hydrologic Unit 03150102, on left bank 300 ft (91 m) downstream from Scarecorn Creek, and 3.3 mi (5.3 km) northwest of Hinton.
DRAINAGE AREA.--119 mi^2 (308 km^2).
PERIOD OF RECORD.--November 1973 to current year.
REVISED RECORDS.--WRD GA-80-1: Drainage area.
GAGE.--Water-stage recorder. Altitude of gage is 890 ft (271 m), from topographic map.
REMARKS.--Records good.
AVERAGE DISCHARGE.--7 years, 213 ft^3/s (6.03 m^3/s), 24.31 in/yr (617 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,100 ft^3/s (399 m^3/s) Mar. 4, 1979, gage height, 14.18 ft (4.322 m); minimum, 23 ft^3/s (0.65 m^3/s) Sept. 30, 1981.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 28, 1973, reached a stage of 15.45 ft (4.709 m), from floodmarks; discharge, 18,400 ft^3/s (521 m^3/s) from rating curve extended above 3,100 ft^3/s (87.8 m^3/s) on basis of slope-area measurements at gage heights 8.66 and 15.45 ft (2.640 and 4.709 m).
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft^3/s (70.8 m^3/s), revised, and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 4	1730	*2500	70.8	5.87	1.789

Minimum discharge, 23 ft^3/s (0.65 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	79	69	72	69	112	324	103	286	55	35	108
2	95	73	71	72	211	106	259	96	247	60	42	71
3	79	68	71	72	124	96	199	92	424	59	39	45
4	69	68	71	72	96	109	167	90	843	54	35	51
5	66	66	70	71	85	218	407	89	451	57	35	51
6	63	63	67	71	78	160	293	89	221	75	57	43
7	61	63	67	73	73	136	216	92	389	81	100	72
8	60	64	68	72	73	120	181	90	361	61	51	85
9	58	60	70	71	71	110	173	83	218	53	42	48
10	56	63	95	71	729	105	163	82	167	50	37	43
11	54	59	81	70	838	99	149	83	140	48	39	40
12	52	56	76	70	280	96	141	82	126	54	41	39
13	52	55	73	70	170	94	134	79	114	49	40	38
14	53	56	70	69	136	92	129	75	106	46	36	37
15	52	165	69	69	120	89	122	94	100	43	34	39
16	52	145	74	69	110	98	117	81	96	43	33	59
17	51	96	73	68	160	91	123	81	91	42	33	43
18	62	99	74	68	477	105	123	81	88	42	35	39
19	242	84	74	68	594	110	140	146	85	41	34	39
20	91	77	73	71	351	94	119	108	85	41	33	38
21	73	71	72	84	218	91	117	89	83	39	63	38
22	67	68	71	70	168	93	108	80	73	36	42	38
23	62	72	70	70	201	96	118	76	68	34	36	36
24	59	107	76	70	159	91	148	70	71	33	34	35
25	87	96	78	70	137	87	119	65	66	36	33	35
26	75	83	74	70	123	85	110	84	74	34	31	34
27	67	84	74	69	114	83	106	238	62	32	29	32
28	141	82	74	69	108	82	102	178	55	28	28	30
29	107	76	72	69	---	82	112	112	53	29	29	28
30	93	70	72	68	---	858	117	92	52	36	35	27
31	87	---	72	68	---	385	---	145	---	33	33	---
TOTAL	2421	2368	2261	2186	6073	4273	4836	3045	5295	1424	1224	1361
MEAN	78.1	78.9	72.9	70.5	217	138	161	98.2	177	45.9	39.5	45.4
MAX	242	165	95	84	838	858	407	238	843	81	100	108
MIN	51	55	67	68	69	82	102	65	52	28	28	27
CFSM	.66	.66	.61	.59	1.82	1.16	1.35	.83	1.49	.39	.33	.38
IN.	.76	.74	.71	.68	1.90	1.34	1.51	.95	1.66	.45	.38	.43

CAL YR 1980 TOTAL 95343 MEAN 261 MAX 3340 MIN 45 CFSM 2.19 IN 29.80
WTR YR 1981 TOTAL 36767 MEAN 101 MAX 858 MIN 27 CFSM .85 IN 11.49

02382500 COOSAWATTEE RIVER AT CARTERS, GA.

LOCATION.—Lat 34°36'13", long 84°41'44", Murray County, Hydrologic Unit 03150102, on downstream side of left bank pier of bridge on U.S. Highway 411 at Carters, 200 ft (61 m) upstream from Louisville & Nashville Railroad bridge, 0.4 mi (0.6 km) downstream from Carters re-regulation dam, and 0.6 mi (1.0 km) downstream from Talking Rock Creek.

DRAINAGE AREA.—521 mi^2 (1,350 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—August 1896 to December 1908, October 1918 to September 1923, October 1961 to August 1972, October 1974 to current year.

REVISED RECORDS.—WRD GA-80-1: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 650.67 ft (198.324 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to September 1923, nonrecording gage at site 0.4 mi (0.6 km) upstream at datum 2.00 ft (0.61 m) higher.

REMARKS.—Records good. Flow regulated by Carters Lake and Carters re-regulation dam since November 1974. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.—34 years (1896-1908, 1918-23, 1961-71, 1974-81), 1,236 ft^3/s (35.0 m^3/s), 32.22 in/yr (818 mm/yr), adjusted for storage since 1975.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge observed, 28,500 ft^3/s (807 m^3/s) Nov. 19, 1906, gage height, 30.6 ft (9.33 m), present datum; minimum daily, 122 ft^3/s (3.46 m^3/s), regulated Nov. 15, 1974; minimum discharge observed prior to regulation, 184 ft^3/s (5.21 m^3/s) several days during September to November 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 29 or 30, 1951, reached a stage of about 36 ft (11.0 m), from floodmarks; discharge, 57,000 ft^3/s (1,610 m^3/s), from rating curve extended above 24,000 ft^3/s (680 m^3/s).

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 3,490 ft^3/s (98.8 m^3/s) Jan. 6, gage height, 10.25 ft (3.124 m); minimum daily, 223 ft^3/s (6.32 m^3/s) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1310	353	926	313	294	829	1710	476	1910	625	314	333
2	291	348	332	281	1170	1020	1160	420	1120	531	312	410
3	245	334	312	322	1150	1310	1230	354	1200	372	379	995
4	238	547	338	344	330	1310	1060	439	2190	366	355	1170
5	223	618	353	349	321	1310	1000	784	2180	335	321	335
6	350	445	336	1700	325	1280	1450	783	1160	545	328	298
7	869	523	306	310	296	1020	1870	795	1710	1500	350	274
8	286	366	663	308	784	577	1710	846	2090	513	341	286
9	254	308	904	315	634	1060	1230	856	2030	339	310	289
10	241	272	747	305	1640	452	885	810	477	340	264	382
11	528	284	716	299	2160	459	913	785	1300	347	323	787
12	502	322	340	320	2190	452	1200	650	572	311	334	338
13	387	364	330	311	2200	465	648	493	337	309	329	378
14	275	291	466	258	945	457	826	493	429	458	334	541
15	299	941	663	273	999	751	646	494	520	448	336	528
16	295	1300	474	291	551	1150	869	578	476	450	296	538
17	318	666	760	299	945	605	863	913	550	445	261	527
18	319	287	339	273	1760	523	814	713	546	422	300	485
19	1630	308	304	250	1860	410	795	463	558	414	304	342
20	642	319	302	276	2650	313	904	984	607	397	342	264
21	457	318	304	246	2660	308	615	969	680	364	344	275
22	281	832	327	247	921	291	359	447	646	359	365	273
23	256	905	325	290	1140	288	330	305	654	365	305	374
24	283	606	697	289	1230	277	326	329	606	324	290	519
25	274	1260	593	269	1090	279	257	402	415	284	332	537
26	477	429	573	250	1360	276	237	654	415	293	336	532
27	666	280	326	375	897	286	766	1150	406	304	333	478
28	576	291	315	392	883	289	1190	1840	355	310	349	1400
29	1210	679	593	416	---	277	781	2080	383	292	321	441
30	1050	748	711	362	---	1580	486	605	429	347	301	510
31	409	---	484	296	---	2190	---	308	---	340	311	---
TOTAL	15441	15536	15159	10829	33385	22094	27130	22218	26951	13129	10020	14839
MEAN	498	518	489	349	1192	713	904	717	898	424	323	495
MAX	1630	1300	926	1700	2660	2190	1870	2080	2190	1500	379	1400
MIN	223	272	302	246	294	276	237	305	337	284	261	264
MEAN†	491	530	469	354	1159	800	891	726	906	362	341	356
CFSM†	.94	1.02	.90	.68	2.22	1.54	1.71	1.39	1.74	.69	.65	.68
IN†	1.09	1.14	1.04	.78	2.32	1.77	1.91	1.61	1.94	.80	.75	.76

CAL YR 1980 TOTAL 461348 MEAN 1261 MAX 4440 MIN 223 MEAN† 1269 CFSM† 2.44 IN† 33.06
WTR YR 1981 TOTAL 226731 MEAN 621 MAX 2660 MIN 223 MEAN† 611 CFSM† 1.17 IN† 15.92

† ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02382500 COOSAWATTEE RIVER AT CARTERS, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1968 to September 1976.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1978 to September 1981 (discontinued).
INSTRUMENTATION.--Water-temperature recorder April 1978 to September 1981.
REMARKS.--No daily water-temperature record Dec. 11-17 and Jan. 5-15.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 26.0°C July 23,24, 1978, Aug. 24, 1980; minimum, 2.5°C Feb. 3, 1980.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.0°C July 27; minimum recorded, 3.0°C Feb. 12.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.5	21.5	17.0	16.0	13.0	10.0	8.5	8.0	6.5	6.5	9.0	8.0
2	22.5	21.5	16.5	16.0	13.0	12.5	8.0	7.5	6.5	5.5	11.0	9.0
3	22.5	22.0	18.0	16.0	12.5	12.0	8.0	7.5	6.0	5.5	9.0	7.5
4	22.0	21.5	17.5	16.5	12.5	12.0	8.0	7.5	6.0	5.5	8.5	7.5
5	21.5	20.5	17.0	15.5	12.0	11.5	---	---	6.0	5.5	8.5	8.0
6	20.5	20.0	16.0	15.0	12.0	11.5	---	---	6.5	6.0	8.5	7.5
7	21.0	20.0	17.0	14.5	11.5	11.0	---	---	6.5	6.0	8.0	7.5
8	20.5	20.0	17.0	16.0	11.5	10.5	---	---	6.5	5.5	8.0	7.5
9	20.5	20.0	17.0	15.5	12.0	10.5	---	---	6.5	4.5	8.5	8.0
10	20.5	20.0	17.0	15.5	12.0	11.0	---	---	6.5	5.5	8.5	8.0
11	21.0	20.5	16.5	15.5	---	---	---	---	7.0	5.5	8.5	7.5
12	20.5	20.0	15.5	15.0	---	---	---	---	6.0	3.0	8.0	7.5
13	20.0	19.0	16.0	15.0	---	---	---	---	6.5	5.5	8.5	7.5
14	20.5	18.0	16.0	15.5	---	---	---	---	6.5	6.0	9.0	8.0
15	20.5	20.0	16.0	15.0	---	---	---	---	6.5	5.5	8.5	8.5
16	20.5	20.0	15.5	15.5	---	---	5.5	5.5	7.5	6.0	9.5	8.5
17	21.0	20.0	16.0	14.5	---	---	6.0	5.5	8.5	7.0	9.0	8.5
18	21.0	20.0	16.0	15.5	11.0	9.0	6.0	5.5	10.0	7.0	9.0	8.5
19	21.0	20.0	15.5	14.5	11.0	10.0	5.5	5.0	10.5	7.0	8.5	8.0
20	20.5	19.0	15.0	14.0	10.0	9.5	6.5	5.0	7.0	6.5	8.5	8.0
21	20.0	19.5	14.5	13.5	9.5	9.0	6.5	6.5	9.0	6.5	8.5	8.0
22	19.5	19.0	14.5	13.5	9.5	9.0	6.5	6.5	9.5	8.5	8.5	8.0
23	19.5	19.0	14.0	12.0	9.5	8.5	6.5	6.5	9.5	7.5	8.5	8.0
24	19.5	19.5	13.0	10.5	9.0	8.0	6.5	6.5	8.0	6.5	9.0	8.5
25	19.0	18.0	15.0	12.0	8.0	7.0	7.0	6.5	8.0	6.5	9.0	8.5
26	18.0	16.5	14.5	14.0	7.5	6.0	7.0	6.5	9.0	7.0	9.5	9.0
27	19.0	16.0	14.0	13.5	7.0	6.5	7.0	7.0	8.5	7.5	9.5	9.0
28	19.0	17.5	13.5	12.0	7.0	6.5	7.0	6.5	8.0	7.5	10.5	9.5
29	18.0	16.5	12.5	12.0	7.5	6.5	7.0	6.0	---	---	11.0	10.5
30	18.5	17.0	12.0	10.5	7.0	6.0	7.0	6.5	---	---	12.0	11.0
31	17.0	16.5	---	---	6.5	6.0	7.0	6.5	---	---	13.5	12.0
MONTH	22.5	16.0	18.0	10.5	13.0	6.0	8.5	5.0	10.5	3.0	13.5	7.5

02382500 COOSAWATTEE RIVER AT CARTERS, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.5	11.0	14.0	13.5	19.0	16.5	21.0	19.0	22.5	22.0	23.5	23.5
2	12.0	10.0	15.5	14.0	17.5	17.0	20.5	19.0	23.0	22.0	24.0	23.5
3	12.0	10.5	17.5	15.5	19.0	17.0	20.5	19.5	23.5	22.0	24.0	23.5
4	13.5	11.5	17.5	14.5	18.0	16.0	20.5	19.0	22.5	22.0	24.0	23.5
5	13.5	11.5	15.5	14.5	18.0	17.0	21.5	19.5	23.0	22.5	24.0	23.5
6	13.5	11.5	15.5	14.0	17.5	16.5	22.0	19.5	23.0	22.5	24.0	23.5
7	12.5	11.0	14.5	13.0	19.5	17.0	21.0	20.0	23.0	22.5	24.0	23.5
8	12.5	11.5	15.0	14.0	20.5	17.5	21.0	20.0	23.0	22.5	24.0	23.0
9	12.5	11.0	16.0	14.5	18.5	16.5	20.5	19.5	23.5	22.5	23.5	23.0
10	12.5	11.5	17.0	16.0	19.0	16.5	20.5	19.5	24.0	22.5	24.0	23.0
11	13.0	12.0	16.5	13.5	20.5	17.5	21.0	20.5	23.0	22.0	23.5	23.5
12	14.0	13.0	15.5	14.0	19.0	16.5	21.0	20.5	23.0	22.0	24.0	23.5
13	15.0	12.0	14.5	14.0	17.5	16.5	22.0	20.5	23.0	22.5	24.0	23.5
14	13.5	11.5	15.5	14.0	19.5	17.0	21.5	20.0	23.0	22.5	24.0	23.5
15	13.0	11.5	14.5	14.0	21.0	18.0	21.0	20.0	23.5	23.0	24.0	23.5
16	14.0	12.5	15.0	14.0	20.5	17.5	21.5	20.5	23.5	23.5	23.5	23.5
17	14.5	13.5	15.5	15.0	18.0	17.0	21.0	20.5	24.5	23.0	23.5	23.0
18	14.5	13.5	15.5	15.0	18.5	17.0	22.0	20.5	23.5	22.5	23.0	22.0
19	16.0	14.0	15.5	14.5	18.5	17.0	21.5	21.0	22.5	22.5	22.0	21.5
20	17.0	12.5	15.0	14.5	19.0	17.5	22.0	21.0	23.0	22.5	21.5	21.0
21	14.5	12.5	16.5	15.0	19.5	18.0	22.0	21.0	23.5	22.5	22.0	20.5
22	15.0	13.5	15.5	14.0	20.0	18.0	21.5	21.0	23.5	22.5	22.5	21.5
23	15.0	12.5	15.0	14.0	20.5	18.5	22.0	21.0	23.5	23.0	22.5	22.0
24	13.0	12.5	16.5	14.5	20.0	18.5	22.0	21.5	24.0	23.0	22.0	21.5
25	15.5	13.0	18.0	16.5	19.5	19.0	22.0	21.5	23.5	22.5	22.5	21.5
26	16.5	15.5	18.0	16.0	19.5	18.5	24.5	22.0	24.0	23.0	22.5	22.0
27	17.5	13.0	16.5	14.5	19.5	18.5	25.0	21.5	24.0	23.0	22.5	22.0
28	15.0	13.5	15.5	15.0	22.5	19.5	23.0	21.5	23.5	23.0	22.5	22.0
29	14.5	13.5	16.5	15.5	22.5	19.0	22.0	21.5	23.5	23.0	22.5	21.5
30	15.0	13.5	16.0	15.5	20.0	19.5	22.5	21.5	24.0	23.5	22.5	22.0
31	---	---	17.5	15.5	---	---	22.5	21.5	24.5	23.5	---	---
MONTH	17.5	10.0	18.0	13.0	22.5	16.0	25.0	19.0	24.5	22.0	24.0	20.5

02382720 COOSAWATTEE RIVER NEAR NICKELSVILLE, GA.

LOCATION.--Lat 34°36'03", long 84°46'42", Gordon County, Hydrologic Unit 03150102, near left bank on downstream side of bridge on county road, 2.1 mi (3.4 km) upstream from Noblet Creek, and 6.8 mi (10.9 km) east of Nickelsville.
DRAINAGE AREA.--556 mi^2 (1,440 km^2).
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1974 to September 1981 (discontinued).
INSTRUMENTATION.--Water-temperature recorder October 1974 to September 1981.
REMARKS.--No daily water-temperature record July 2-9.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 27.0°C July 24, 1978, July 27, 1981; minimum, 0.5°C Jan. 17, 1977.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C July 27; minimum, 4.0°C Jan. 12, 13, 17.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.5	22.0	16.5	14.5	12.0	10.0	8.0	7.0	6.5	6.0	9.5	8.0
2	22.0	21.5	16.5	14.5	12.5	11.5	8.0	7.0	6.5	5.5	10.5	8.5
3	22.0	20.5	17.0	15.5	11.5	10.0	8.5	6.0	6.0	5.5	10.5	8.5
4	21.0	19.5	18.0	16.0	11.5	9.5	7.5	6.0	6.0	5.0	8.5	7.5
5	20.5	19.5	16.5	16.0	12.0	10.0	6.0	5.0	6.0	4.5	9.0	8.5
6	20.0	18.0	16.0	14.5	12.0	10.0	8.5	6.0	7.0	5.5	8.5	7.5
7	21.0	19.5	16.0	14.5	11.5	10.0	8.5	6.5	7.0	5.5	8.5	7.0
8	21.0	19.5	17.5	15.5	12.0	10.0	7.0	6.0	7.0	6.0	9.0	7.5
9	21.0	19.5	17.5	15.5	11.0	10.5	7.5	6.5	6.0	5.0	9.5	7.5
10	21.5	19.5	16.5	15.0	11.5	10.5	6.5	5.5	6.5	6.0	10.0	7.5
11	21.0	19.5	16.0	14.5	11.0	10.5	6.0	5.0	7.0	6.0	10.0	8.0
12	20.5	19.5	15.0	13.5	11.0	10.0	5.0	4.0	6.0	4.5	10.0	7.5
13	19.5	18.5	15.5	13.5	11.0	10.0	6.0	4.0	6.5	5.5	10.0	7.0
14	19.5	17.5	16.5	15.0	10.5	9.0	6.5	5.0	7.0	5.5	10.0	8.0
15	20.5	18.5	16.0	15.0	10.0	9.5	6.0	4.5	7.0	6.0	10.0	7.5
16	21.0	19.5	15.5	15.0	10.5	8.5	5.5	4.5	8.0	6.0	10.0	9.0
17	21.0	20.0	15.5	14.5	10.5	7.5	5.5	4.0	9.0	7.5	10.5	8.5
18	21.0	20.5	15.5	13.5	9.5	9.0	6.0	4.5	10.0	7.5	9.5	8.5
19	21.0	20.0	14.0	13.0	10.0	9.0	6.0	4.5	10.5	8.5	9.5	7.5
20	20.5	19.0	13.5	12.0	9.0	8.0	6.5	5.0	8.0	7.0	10.0	7.5
21	20.0	18.5	13.0	12.0	8.5	7.5	7.0	6.5	8.5	6.5	9.0	7.0
22	19.5	18.5	13.5	11.5	8.5	7.0	6.5	6.5	9.5	9.0	8.5	8.0
23	19.0	17.5	13.5	12.5	9.5	8.5	7.0	6.0	10.0	8.5	9.5	8.0
24	18.5	18.0	12.5	11.5	9.0	8.5	7.0	5.5	8.5	6.5	10.5	7.5
25	18.0	17.0	14.0	12.0	8.5	6.5	7.5	5.5	8.0	7.0	11.0	7.5
26	17.5	16.0	14.0	12.5	6.5	6.0	7.5	6.5	8.5	7.0	12.0	8.0
27	18.0	16.5	13.0	12.0	7.0	6.0	8.0	7.0	9.5	8.0	12.0	8.5
28	18.0	17.5	12.0	11.0	7.5	5.5	7.5	6.5	9.0	8.0	12.5	9.0
29	17.5	16.0	12.0	10.5	8.0	6.5	7.5	6.5	---	---	12.5	10.5
30	18.0	17.0	11.5	10.5	7.5	6.5	7.0	6.5	---	---	13.0	11.5
31	17.0	16.0	---	---	7.0	6.0	7.0	6.0	---	---	14.0	12.0
MONTH	22.5	16.0	18.0	10.5	12.5	5.5	8.5	4.0	10.5	4.5	14.0	7.0

02382720 COOSAWATTEE RIVER NEAR NICKELSVILLE, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.5	12.5	15.5	13.5	19.0	17.0	21.5	20.0	23.0	22.0	25.0	23.5
2	13.0	10.0	16.5	13.5	19.5	17.0	---	---	24.5	22.5	25.0	23.5
3	13.0	11.5	18.0	14.5	19.0	18.0	---	---	25.5	22.5	24.5	23.5
4	13.5	12.0	18.5	15.5	19.0	17.0	---	---	24.5	22.5	24.5	24.0
5	15.0	12.5	17.0	14.5	19.0	17.0	---	---	25.5	22.5	25.0	23.5
6	13.5	11.5	15.5	15.0	19.0	18.0	---	---	25.0	23.0	25.0	24.0
7	13.0	11.5	15.5	14.0	20.0	17.5	---	---	24.5	22.0	25.0	23.5
8	13.0	12.0	16.0	14.0	21.0	18.0	---	---	24.5	22.0	24.5	24.0
9	13.0	12.0	17.0	14.0	20.0	18.0	---	---	25.0	23.0	24.5	22.5
10	14.0	11.5	17.5	16.0	21.0	17.5	23.0	20.5	25.0	23.0	24.5	22.0
11	14.0	12.5	17.0	14.0	20.5	18.5	23.0	20.5	24.0	22.0	24.5	23.0
12	14.5	12.5	16.0	14.0	21.0	18.0	23.5	20.5	25.0	23.0	24.5	23.0
13	17.5	13.5	16.5	14.0	20.5	18.5	24.5	21.5	25.0	22.5	25.0	23.0
14	15.5	12.5	17.0	14.5	21.0	18.0	23.5	21.5	25.0	22.0	25.0	23.0
15	13.5	12.0	15.0	14.0	23.5	19.0	22.5	21.0	25.0	22.5	24.0	24.0
16	14.5	12.5	15.5	14.0	23.0	19.0	24.0	20.5	24.5	23.5	24.5	23.5
17	14.5	13.5	15.5	14.5	20.0	18.5	24.0	21.0	25.0	23.5	23.5	22.5
18	15.5	13.5	17.5	15.5	20.5	17.5	23.5	21.5	24.5	22.5	22.5	21.5
19	16.5	14.0	17.0	15.5	20.5	18.0	24.0	21.5	23.0	22.5	22.5	20.5
20	17.5	14.5	16.0	15.0	20.5	18.0	24.5	21.5	23.5	22.5	22.0	20.0
21	15.5	12.5	17.5	15.0	21.0	18.5	24.5	22.0	24.0	22.0	22.0	19.5
22	15.5	13.5	18.5	15.5	22.5	19.0	24.5	21.5	24.5	22.5	23.0	20.5
23	16.0	14.5	18.0	14.5	22.5	19.0	24.0	21.0	25.0	22.5	23.0	21.5
24	15.5	13.0	19.0	15.0	22.0	19.0	25.0	22.0	25.5	23.0	23.0	21.0
25	16.0	12.5	19.5	16.0	22.0	19.5	24.5	22.0	24.5	22.5	23.0	21.5
26	18.5	14.0	18.5	17.5	22.0	19.5	25.0	22.5	24.5	23.0	23.0	22.0
27	19.0	14.0	18.0	15.5	21.5	19.0	27.0	23.5	25.0	23.0	23.0	22.0
28	16.5	13.5	17.0	15.5	23.0	19.5	26.0	22.5	24.5	23.0	23.0	22.0
29	15.5	14.0	18.0	16.0	24.5	22.0	23.5	22.5	25.0	23.0	23.0	20.5
30	17.0	14.0	19.5	16.5	22.5	19.5	23.5	22.0	25.0	23.5	23.5	21.5
31	---	---	18.5	16.5	---	---	23.5	22.0	26.0	23.5	---	---
MONTH	19.0	10.0	19.5	13.5	24.5	17.0	27.0	20.0	26.0	22.0	25.0	19.5
YEAR	27.0	4.0										

02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.

LOCATION.—Lat 34°33'51", long 84°49'59", Gordon County, Hydrologic Unit 03150102, on right bank at downstream side of highway bridge, 1.4 mi (2.3 km) downstream from Sallacoa Creek, 8.7 mi (14.0 km) upstream from confluence with Conasauga River, and 2.4 mi (3.9 km) east of Pine Chapel.
DRAINAGE AREA.—831 mi^2 (2,150 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1938 to current year. Prior to October 1976, published as Coosawattee River at Pine Chapel, Ga. Monthly discharge only for some periods, published in WSP 1304.
REVISED RECORDS.—WRD GA-80-1: Drainage area.
GAGE.—Water-stage recorder. Datum of gage is 616.16 ft (187.806 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Since October 1, 1976, auxiliary water-stage recorder at highway bridge 2.2 mi (3.5 km) downstream. Prior to Feb. 23, 1940, nonrecording gage at current auxiliary gage site and same datum. Feb. 23, 1940, to April 8, 1975, water-stage recorder at current auxiliary gage site and same datum. Feb. 23, 1940, to April 8, 1975 auxiliary water-stage recorder at current gage site. April 9, 1975, to Sept. 30, 1976, water-stage recorder on Oostanaula River at Resaca used as auxiliary gage, due to bridge construction.
REMARKS.—Records good. Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.)
AVERAGE DISCHARGE.—43 years, 1,494 ft^3/s (42.3 m^3/s), 24.41 in/yr (620 mm/yr), unadjusted.
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 40,200 ft^3/s (1,140 m^3/s) Mar. 30, 1951, gage height, 34.2 ft (10.42 m) at current base gage, 30.8 ft (9.39 m) at current auxiliary gage; minimum daily, 188 ft^3/s (5.32 m^3/s) Sept. 11, 1976, minimum unregulated daily discharge, 220 ft^3/s (6.23 m^3/s) Oct. 26, 1941.
EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Apr. 8, 1938, reached a stage of 30.0 ft (9.14 m) from gage reading at current auxiliary gage, discharge 34,000 ft^3/s (963 m^3/s).
EXTREMES FOR CURRENT YEAR.—Maximum discharge, 6,180 ft^3/s (175 m^3/s) Mar. 31, maximum gage height, 17.48 ft (5.328 m) Mar. 31; minimum daily discharge, 285 ft^3/s (8.07 m^3/s) Aug. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1950	458	880	445	387	1010	3450	618	2060	560	356	410
2	586	442	585	355	1650	1080	2030	554	1920	719	338	478
3	359	414	429	351	1770	1410	1730	493	1300	439	371	783
4	338	426	400	417	784	1470	1520	476	3790	450	409	1200
5	312	708	438	393	535	1790	2070	743	3380	439	343	630
6	291	639	422	1130	502	1750	2370	832	2010	501	357	409
7	798	529	410	986	478	1400	2420	836	2230	1020	488	482
8	544	559	534	414	680	893	2230	863	2760	1120	450	362
9	329	393	835	411	889	1210	1800	902	2320	406	370	348
10	315	367	937	407	1780	710	1130	874	1210	380	293	357
11	376	370	800	387	5230	630	1180	837	1090	468	352	642
12	663	367	549	392	3640	603	1290	816	1200	458	364	573
13	452	451	426	398	2740	603	1110	565	483	364	366	414
14	376	383	406	384	1460	600	848	573	600	484	354	439
15	348	755	702	348	1450	680	900	593	519	538	369	648
16	358	1690	669	372	880	1170	903	568	703	566	336	580
17	365	966	667	386	1110	939	995	887	633	491	285	584
18	400	590	571	379	3320	589	1000	900	570	479	293	560
19	1420	455	370	328	3600	697	982	602	646	461	342	466
20	1240	440	382	371	3570	496	982	941	649	447	355	330
21	552	434	373	368	3310	472	919	1100	711	431	452	313
22	456	790	379	360	1700	462	574	700	755	371	532	334
23	352	824	397	393	1500	475	501	376	675	402	394	353
24	343	1080	522	393	1800	455	574	410	681	371	324	541
25	368	1530	655	383	1230	435	493	411	547	343	359	550
26	430	767	745	354	1690	426	419	672	500	327	372	574
27	790	545	454	383	1150	423	557	1770	502	326	360	522
28	799	491	385	462	1090	426	1200	1880	456	328	369	975
29	966	595	491	550	---	418	1150	2190	423	343	369	879
30	1590	1010	791	460	---	3320	609	1270	493	367	347	533
31	654	---	550	428	---	5480	---	473	---	357	344	---
TOTAL	19120	19468	17154	13588	49925	32522	37936	25725	35816	14756	11413	16269
MEAN	617	649	553	438	1783	1049	1265	830	1194	476	368	542
MAX	1950	1690	937	1130	5230	5480	3450	2190	3790	1120	532	1200
MIN	291	367	370	328	387	418	419	376	423	326	285	313

CAL YR 1980 TOTAL 646657 MEAN 1767 MAX 10300 MIN 291 MEAN† 1775 CFSM† 2.14 IN† 28.99
WTR YR 1981 TOTAL 293692 MEAN 805 MAX 5480 MIN 285 MEAN† 795 CFSM† 0.96 IN† 12.99

† ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: October 1974 to September 1981 (discontinued).
INSTRUMENTATION.—Water-temperature recorder October 1974 to September 1981.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum, 26.5°C July 27, 28, Aug. 5, 1981; minimum, 0.0°C Jan. 22, 23, 30, Feb. 1, 1977.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum, 26.5°C July 27, 28, Aug. 5; minimum, 3.5°C Jan. 13, 18.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.0	21.5	16.0	15.0	10.5	10.0	6.5	6.0	6.0	5.5	9.0	8.5
2	21.5	21.5	15.0	15.0	10.5	10.0	6.5	6.5	5.5	5.0	9.0	8.5
3	21.5	20.5	15.5	15.0	10.5	10.0	6.5	6.0	5.0	4.5	9.0	8.5
4	20.5	19.5	16.5	15.5	10.0	9.5	6.5	6.0	5.0	4.0	8.5	8.0
5	19.5	19.0	16.0	16.0	9.5	9.5	6.0	5.0	4.0	4.0	8.5	8.0
6	19.0	18.5	15.5	15.0	10.0	9.5	6.5	5.0	4.5	4.0	8.5	8.0
7	19.5	18.5	15.0	14.5	10.0	9.5	7.0	6.5	5.0	4.5	8.0	7.5
8	19.5	19.5	15.5	15.0	10.5	10.0	6.5	5.5	5.5	5.0	8.0	7.5
9	19.5	19.5	15.5	15.5	10.5	10.5	6.0	5.5	5.5	5.0	8.5	7.5
10	20.0	19.5	16.0	15.5	10.5	10.5	6.0	5.5	5.5	5.0	8.5	8.0
11	20.0	19.5	15.5	15.0	10.5	10.0	5.0	4.5	5.5	5.5	9.0	8.0
12	20.0	19.5	14.5	14.0	10.0	9.5	4.5	4.0	5.5	4.0	9.0	8.5
13	19.5	18.5	14.0	13.5	9.5	9.5	4.0	3.5	5.0	4.5	9.0	8.5
14	18.5	18.0	14.5	14.0	9.5	9.0	4.5	4.0	5.5	4.5	9.0	9.0
15	18.5	17.5	15.0	14.5	9.5	9.0	5.0	4.5	5.5	5.0	9.0	8.5
16	19.0	18.5	15.0	15.0	9.5	9.5	5.0	4.5	6.5	5.5	9.5	9.0
17	19.5	19.0	15.0	14.5	9.5	8.5	4.5	4.0	7.5	6.5	9.5	9.0
18	20.0	20.0	14.5	13.5	9.0	8.5	4.0	3.5	8.0	7.5	9.5	9.5
19	20.0	20.0	13.5	12.5	8.5	8.5	4.5	4.0	9.0	8.5	9.5	9.0
20	20.0	19.0	12.5	12.0	8.5	7.5	5.0	4.5	9.0	7.5	9.0	8.5
21	19.0	18.0	12.0	11.5	7.5	7.0	5.5	5.0	7.5	7.0	9.0	8.5
22	18.5	18.5	12.5	11.0	7.0	6.5	5.5	5.0	8.5	7.5	9.0	8.5
23	18.5	18.0	12.5	12.0	7.5	6.5	6.0	5.5	8.5	8.0	9.0	8.5
24	18.0	17.5	12.5	11.5	8.0	7.5	5.5	5.5	8.5	7.5	9.5	9.0
25	17.5	17.0	12.0	11.5	8.0	6.5	5.5	5.5	8.0	7.5	10.0	9.5
26	17.0	16.0	12.5	11.5	6.5	6.5	6.0	5.5	7.5	7.5	10.5	10.0
27	16.5	16.0	11.5	11.0	6.0	6.0	6.5	6.0	8.5	7.5	11.0	10.5
28	16.5	16.5	11.0	10.5	6.0	5.5	6.5	6.5	8.5	8.0	11.5	11.0
29	16.5	16.5	10.5	10.0	7.0	6.0	6.5	6.0	---	---	12.5	11.5
30	17.0	16.5	10.5	10.5	7.0	6.5	6.5	6.0	---	---	13.5	12.5
31	16.5	16.0	---	---	6.5	6.5	6.0	5.5	---	---	14.0	13.0
MONTH	22.0	16.0	16.5	10.0	10.5	5.5	7.0	3.5	9.0	4.0	14.0	7.5

02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.0	13.5	16.0	15.5	20.0	18.5	22.0	21.0	22.5	22.0	24.5	23.5
2	14.0	13.0	15.5	15.0	19.5	17.5	21.0	20.0	25.5	22.0	24.5	23.0
3	13.5	12.5	15.5	15.0	20.5	18.5	21.5	20.5	24.5	23.0	24.5	23.5
4	13.5	13.0	16.5	16.0	20.0	19.0	22.0	20.5	24.5	23.5	24.5	23.5
5	14.5	13.5	16.5	15.5	19.5	18.5	22.0	21.5	26.0	23.5	25.0	23.5
6	14.5	13.5	17.0	15.5	20.0	18.5	23.0	21.5	26.5	24.0	25.0	24.0
7	13.5	13.0	16.0	15.0	20.5	18.0	23.0	20.5	24.0	23.5	24.5	24.0
8	13.0	13.0	16.5	14.5	21.0	20.0	23.0	20.5	24.0	23.5	24.5	23.0
9	13.5	13.0	16.5	14.5	20.0	18.5	24.0	22.5	25.0	23.5	24.5	22.0
10	14.0	13.0	17.5	16.0	21.5	18.0	24.0	23.0	26.0	22.5	24.0	21.0
11	14.5	13.5	17.5	16.0	21.5	19.5	23.5	22.5	24.0	23.5	24.5	22.5
12	14.5	14.0	16.0	14.0	21.0	18.5	23.5	22.5	25.5	23.5	24.5	23.0
13	16.0	14.0	16.5	14.5	22.0	21.0	25.0	23.0	25.0	23.5	24.5	23.0
14	16.0	15.0	16.5	15.0	21.0	20.5	23.5	22.5	25.5	23.5	24.5	23.5
15	15.5	14.5	16.5	14.5	23.0	21.0	23.5	22.5	25.0	23.5	24.5	23.5
16	14.5	14.0	15.0	14.0	23.0	20.0	23.5	22.5	25.5	24.0	24.0	23.0
17	14.0	14.0	15.5	14.5	22.5	20.0	23.5	22.5	25.5	22.5	23.5	22.0
18	15.0	14.0	17.5	15.5	20.5	19.5	23.5	22.5	23.0	19.5	22.0	21.0
19	15.5	15.0	17.5	16.5	20.5	19.0	23.5	23.0	23.0	22.0	21.0	19.5
20	16.5	15.5	17.5	15.5	20.5	19.0	24.0	23.0	23.0	22.5	21.0	18.0
21	16.5	15.0	17.0	15.0	21.0	19.5	24.5	23.0	23.5	22.5	21.0	17.5
22	15.5	15.0	17.5	15.5	22.5	19.5	24.5	23.0	23.0	22.0	23.0	19.5
23	16.0	15.0	18.5	16.5	22.0	20.0	23.5	22.5	24.0	22.5	22.5	21.0
24	16.0	15.5	18.0	17.0	22.0	20.0	25.0	23.5	25.5	22.5	21.5	20.5
25	15.5	15.0	18.5	17.5	22.0	20.5	26.0	23.5	24.5	23.5	22.0	20.5
26	16.0	15.0	18.5	18.0	22.5	21.0	25.5	23.5	24.5	23.0	22.5	21.0
27	17.0	16.0	18.5	17.5	21.5	20.5	26.5	23.5	25.0	23.0	22.5	21.0
28	17.0	15.0	17.5	16.0	22.0	20.5	26.5	24.5	24.0	23.0	23.0	21.5
29	15.5	14.5	17.5	16.0	23.5	21.5	25.0	23.0	25.0	23.0	22.5	21.5
30	16.0	15.0	19.5	16.5	23.5	21.5	23.5	22.5	25.5	23.5	22.0	21.0
31	---	---	19.5	19.0	---	---	23.0	22.0	25.5	23.5	---	---
MONTH	17.0	12.5	19.5	14.0	23.5	17.5	26.5	20.0	26.5	19.5	25.0	17.5

02383540 COOSAWATTEE RIVER NEAR CALHOUN, GA.

LOCATION.--Lat 34°32'28", long 84°54'03", Gordon County, Hydrologic Unit 03150102, at bridge on State Highway 225, 0.2 mi (0.3 km) upstream from confluence with Conasauga River, and 4.0 mi (6.4 km) northeast of Calhoun.

DRAINAGE AREA.--861 mi^2 (2,230 km^2), revised.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Carters Lake and Carters re-regulation reservoir. (See "Lakes and Reservoirs in Mobile River Basin", stations 02381400 and 02382400.) Discharge obtained from gaging station 02383500, Coosawattee River near Pine Chapel, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 28...	0815	620	7.3	7.5	13.0	15.0	9.1
NOV 24...	1200	1280	--	7.4	13.0	12.5	9.6
DEC 08...	1000	374	7.2	7.5	11.0	10.0	10.2
JAN 27...	1230	353	7.5	7.6	13.5	7.5	11.4
FEB 25...	1100	1090	6.9	7.3	16.5	8.0	10.1
MAR 24...	1130	465	7.2	7.6	15.0	9.5	10.6
APR 28...	1215	1230	--	7.3	29.0	15.5	9.4
MAY 26...	0830	596	7.2	7.4	22.0	18.0	7.4
JUN 23...	0900	641	7.5	7.5	25.0	22.0	7.9
JUL 27...	1100	332	7.3	7.4	33.0	25.0	6.8
AUG 25...	1115	375	7.5	7.2	29.5	29.5	7.4
SEP 29...	0800	1630	7.3	6.8	12.5	21.5	8.2

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 28...	69	11	1.3	1500	30	26	.14	<.020	.040	1.5
NOV 24...	79	13	2.2	2300	30	26	.16	.040	.030	1.0
DEC 08...	81	3	.5	40	36	33	.16	<.020	<.020	2.0
JAN 27...	77	5	.4	<30	40	31	.17	.030	<.020	<1.0
FEB 25...	76	9	.9	90	28	27	.26	.030	.030	<1.0
MAR 24...	91	9	.8	230	46	39	.23	.030	<.020	<1.0
APR 28...	55	12	.4	40	24	20	.16	.020	.020	<1.0
MAY 26...	72	9	1.1	430	18	29	.20	.020	.020	<1.0
JUN 23...	67	8	1.1	430	36	26	.20	.020	.030	<1.0
JUL 27...	80	9	2.2	90	28	27	.20	<.020	.020	<1.0
AUG 25...	61	18	1.4	--	28	22	.13	.020	.040	<1.0
SEP 29...	41	--	.6	40	20	12	.14	.020	.020	<1.0

02384748 CONASAUGA RIVER NEAR DALTON, GA.

LOCATION.—Lat 34°47'20", long 84°52'30", Whitfield-Murray County line, Hydrologic Unit 03150101, at Dalton water works intake, 0.4 mi (0.6 km) upstream from U.S. Highway 76, and 5.5 mi (8.8 km) east of Dalton.

DRAINAGE AREA.—308 mi^2 (798 km^2).

PERIOD OF RECORD.—July 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
28...	1030	45	7.6	7.9	13.5	12.5	8.9
NOV							
24...	1430	130	--	7.4	14.5	9.0	9.8
DEC							
08...	1150	75	7.4	7.6	20.0	7.5	10.3
JAN							
27...	1545	65	7.8	7.8	18.0	7.5	11.0
FEB							
25...	1400	450	7.1	7.5	22.0	9.0	9.4
MAR							
24...	1430	290	7.6	7.9	18.5	10.0	11.2
APR							
28...	1515	260	--	7.5	35.5	19.0	8.1
MAY							
26...	1150	180	--	7.7	24.5	20.0	6.8
JUN							
23...	1245	150	7.8	7.9	36.0	25.5	6.9
JUL							
27...	1300	60	7.5	7.1	36.5	26.5	5.5
AUG							
25...	1500	35	7.9	7.7	37.0	24.0	6.2
SEP							
29...	1115	70	7.2	7.5	25.0	19.5	7.6

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)
OCT							
28...	139	16	2	1.4	4300	930	62
NOV							
24...	113	35	20	2.1	230000	23000	52
DEC							
08...	115	5	<5	.3	430	230	--
JAN							
27...	122	6	<5	.7	230	40	56
FEB							
25...	97	8	<5	1.1	930	40	42
MAR							
24...	109	10	4	.8	2300	40	50
APR							
28...	93	12	5	.4	23000	430	52
MAY							
26...	128	20	5	1.0	8600	540	56
JUN							
23...	130	13	<5	.6	2300	70	62
JUL							
27...	120	84	--	1.1	9300	930	56
AUG							
25...	130	22	--	1.5	--	--	62
SEP							
29...	136	19	--	.5	750	2100	66

02384748 CONASAUGA RIVER NEAR DALTON, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 28...	65	21	.10	.050	.20	.040	1.5
NOV 24...	44	55	.30	.160	.60	.180	6.0
DEC 08...	52	10	.12	<.020	<.10	--	2.0
JAN 27...	56	5	.05	.020	.10	<.020	<1.0
FEB 25...	39	1	.29	.020	.10	.020	<1.0
MAR 24...	47	7	.02	.030	.11	<.020	1.5
APR 28...	42	25	.20	.020	.30	.020	<1.0
MAY 26...	57	40	.23	.040	.10	.050	<1.0
JUN 23...	63	22	--	--	--	--	--
JUL 27...	48	66	.36	.040	--	.180	4.5
AUG 25...	65	36	.25	.050	--	.040	1.5
SEP 29...	62	22	.14	.040	--	.050	<1.0

02383800 HOLLY CREEK NEAR CHATSWORTH, GA.

LOCATION.—Lat 34°43'00", long 84°46'12", Murray County, Hydrologic Unit 03150101, on right bank 100 ft (30 m) upstream from bridge on county road, 3 mi (4.8 km) upstream from Rock Creek, and 3.3 mi (5.3 km) south of Chatsworth.
DRAINAGE AREA.—64.0 mi² (166 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—June 1960 to current year.
REVISED RECORDS.—WRD GA-80-1: Drainage area.
GAGE.—Water-stage recorder. Altitude of gage is 690 ft (210 m), from topographic map.
REMARKS.—Records good. Low flow affected by withdrawals and return flow by the city of Chatsworth. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.
AVERAGE DISCHARGE.—21 years, 121 ft³/s (3.43 m³/s), 25.67 in/yr (652 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 9,110 ft³/s (258 m³/s) Mar. 4, 1979, gage height, 12.54 ft (3.822 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Sept. 14, 16, 17, 1980.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 1,500 ft³/s (42.5 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Feb. 11	1000	*1560	44.1	8.62	2.627

Minimum daily discharge, 4.6 ft³/s (0.130 m³/s) Oct. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	12	29	17	18	59	331	38	235	19	11	61
2	22	12	24	16	455	55	255	36	524	21	14	51
3	16	9.5	23	15	122	50	167	35	203	23	14	28
4	12	15	20	15	69	53	119	32	482	21	8.8	19
5	11	21	18	14	51	135	463	30	523	20	7.1	17
6	8.7	15	17	13	43	98	257	29	184	30	7.4	19
7	9.2	11	17	18	38	76	154	30	306	32	39	441
8	8.1	12	17	17	37	65	120	29	383	19	27	89
9	6.9	12	18	15	33	58	135	25	165	16	23	47
10	6.6	11	87	14	392	52	126	27	114	14	13	32
11	7.1	11	58	14	1200	49	103	66	99	13	27	25
12	6.4	11	41	14	227	46	93	36	81	14	31	22
13	4.7	9.9	33	15	115	44	83	29	68	13	16	20
14	4.9	9.7	29	15	90	42	75	29	60	10	13	18
15	5.2	60	25	16	74	39	69	51	52	11	9.3	17
16	4.6	66	24	15	64	42	63	34	47	15	9.2	77
17	5.4	31	22	15	158	38	59	31	43	14	29	31
18	7.6	31	20	14	596	47	82	36	39	13	108	21
19	19	28	19	14	1050	53	63	114	36	11	22	18
20	13	22	18	14	744	40	57	66	38	12	15	17
21	9.3	19	16	31	211	37	54	47	39	7.8	62	16
22	7.7	17	16	27	132	42	49	36	32	6.6	27	13
23	6.9	21	16	21	129	50	67	31	29	5.0	17	13
24	7.1	145	18	18	98	44	100	27	27	4.8	15	11
25	9.9	79	24	17	81	39	71	24	25	35	11	11
26	14	47	20	16	72	37	60	35	26	16	9.2	10
27	10	54	18	16	66	35	51	533	23	11	7.8	9.5
28	48	58	18	20	61	34	46	221	21	7.4	7.7	8.9
29	28	43	18	17	---	32	46	109	20	12	7.7	7.9
30	18	34	17	16	---	830	47	77	19	21	12	7.3
31	14	---	17	17	---	669	---	93	---	14	11	---
TOTAL	398.3	927.1	757	516	6426	2990	3465	2036	3943	481.6	631.2	1177.6
MEAN	12.8	30.9	24.4	16.6	230	96.5	116	65.7	131	15.5	20.4	39.3
MAX	48	145	87	31	1200	830	463	533	524	35	108	441
MIN	4.6	9.5	16	13	18	32	46	24	19	4.8	7.1	7.3
CFSM	.20	.48	.38	.26	3.59	1.51	1.81	1.03	2.05	.24	.32	.61
IN.	.23	.54	.44	.30	3.74	1.74	2.01	1.18	2.29	.28	.37	.68

CAL YR 1980 TOTAL 47111.1 MEAN 129 MAX 2800 MIN 1.5 CFSM 2.02 IN 27.38
WTR YR 1981 TOTAL 23748.8 MEAN 65.1 MAX 1200 MIN 4.6 CFSM 1.02 IN 13.80

02385800 HOLLY CREEK NEAR CHATSWORTH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to June 1974, March 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
16...	1345	4.5	--	10	.12
NOV					
25...	1725	66	10.5	16	2.9
JAN					
09...	1120	17	2.0	12	.55
FEB					
19...	1015	1240	13.0	88	295
APR					
02...	0850	268	12.0	39	28
MAY					
14...	1245	27	17.5	15	1.1
JUN					
25...	0830	25	--	14	.94
AUG					
06...	1105	6.2	26.0	7	.12
SEP					
16...	1615	64	21.0	57	9.8

02387000 CONASAUGA RIVER AT TILTON, GA.

LOCATION.—Lat 34°40'00", long 84°55'42", Whitfield-Murray County line, Hydrologic Unit 03150101, on left bank 250 ft (76 m) downstream from highway bridge, 0.2 mi (0.3 km) downstream from Swamp Creek, 0.5 mi (0.8 km) northeast of Tilton, and 12 mi (19.3 km) upstream from confluence with Coosawattee River.

DRAINAGE AREA.—687 mi^2 (1,780 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—June 1937 to current year.

REVISED RECORDS.—WRD GA-80-1: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 622.28 ft (189.671 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Aug. 24, 1940, nonrecording gage at site 150 ft (46 m) upstream at same datum. Since Oct. 1, 1979, auxiliary water-stage recorder at county road bridge, 3.2 mi (5.1 km) downstream. Water-stage recorder on Oostanaula River at Resaca used as auxiliary gage during 1961-79 water years.

REMARKS.—Records good. Flow affected by withdrawals and return flow by the city of Dalton, Ga.

AVERAGE DISCHARGE.—44 years, 1,215 ft^3/s (34.4 m^3/s), 24.02 in/yr (610 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 29,000 ft^3/s (821 m^3/s) Mar. 30, 1951; maximum gage height, 30.2 ft (9.20 m) Mar. 30, 1951, backwater from Coosawattee River; minimum daily discharge, 50 ft^3/s (1.42 m^3/s) Oct. 29, 1978.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 13	0300	*6300	178	15.7	4.79	Apr. 1	0800	6150	174	14.69	4.478
Feb. 20	1000	5520	156	14.5	4.42	June 6	0100	5150	146	13.39	4.081

Minimum daily discharge, 103 ft^3/s (2.92 m^3/s) Oct. 15, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	998	183	430	170	240	750	5530	500	2010	227	168	187
2	561	161	350	173	1600	720	2960	420	2760	228	170	302
3	304	156	300	171	2800	660	1790	400	2300	250	208	274
4	206	157	268	163	1550	600	1350	370	2610	255	176	249
5	173	152	244	167	810	1200	2180	340	4760	248	207	202
6	153	149	225	161	610	1850	3810	330	4530	254	162	476
7	142	145	209	153	510	1250	2410	325	2290	354	162	418
8	132	134	212	155	460	970	1490	315	4100	285	474	990
9	124	129	210	160	430	825	1270	305	4520	229	414	733
10	122	136	356	155	1600	730	1510	290	1960	204	260	392
11	114	138	868	153	5100	660	1330	900	1370	186	231	266
12	110	123	708	150	5600	620	1060	1050	1130	183	310	210
13	114	127	516	145	5200	575	943	470	949	194	273	198
14	113	123	405	145	1600	540	838	375	804	205	220	183
15	103	259	345	142	1200	500	745	397	684	176	174	173
16	105	757	306	140	980	470	680	584	586	279	151	247
17	103	700	277	140	950	500	615	391	518	214	148	440
18	106	417	257	140	3300	500	720	384	469	179	616	316
19	151	323	236	140	4900	580	810	583	422	171	446	224
20	158	305	221	140	5270	545	750	1360	382	253	266	190
21	181	268	208	160	4310	465	690	886	361	178	635	179
22	158	229	195	250	2260	440	615	594	361	139	839	170
23	128	232	188	320	1600	600	560	455	327	115	501	143
24	120	809	186	260	1400	740	1200	386	301	110	276	117
25	118	1260	197	210	1150	690	1800	342	281	150	216	105
26	130	951	200	200	1000	585	1000	323	279	343	172	146
27	135	713	207	190	950	505	740	728	276	281	158	174
28	248	738	186	190	820	465	630	1710	264	188	142	173
29	310	766	192	185	---	430	600	1570	244	161	131	165
30	266	564	185	200	---	3330	560	922	228	128	163	146
31	221	---	185	230	---	5700	---	774	---	139	225	---
TOTAL	6107	11304	9072	5458	58200	28995	41186	18779	42076	6506	8694	8180
MEAN	197	377	293	176	2079	935	1373	606	1403	210	280	273
MAX	998	1260	868	320	5600	5700	5530	1710	4760	354	839	990
MIN	103	123	185	140	240	430	560	290	228	110	131	105
CFSM	.29	.55	.43	.26	3.03	1.36	2.00	.88	2.04	.31	.41	.40
IN.	.33	.61	.49	.30	3.15	1.57	2.23	1.02	2.28	.35	.47	.44

CAL YR 1980 TOTAL 503018 MEAN 1374 MAX 22000 MIN 64 CFSM 2.00 IN 27.24
WTR YR 1981 TOTAL 244557 MEAN 670 MAX 5700 MIN 103 CFSM .98 IN 13.24

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—March 1968 to current year.
PERIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: October 1975 to current year.
pH: October 1975 to current year.
WATER TEMPERATURES: October 1975 to current year.
DISSOLVED OXYGEN: October 1975 to current year.
REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by the U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: Maximum, 623 micromhos Sept. 26, 1981; minimum, 34 micromhos Mar. 23, 1980.
pH: Maximum recorded, 8.7 units Feb. 28, Mar. 1, 1977; minimum recorded, 6.3 units July 5, 6, 1976.
WATER TEMPERATURE: Maximum recorded, 32.5°C Aug. 7, 1979; minimum recorded, 0.5°C Feb. 1, 2, 1977, Jan. 11, 20-23, 1978, Jan. 12, 13, 1981.
DISSOLVED OXYGEN: Maximum recorded, 13.6 mg/L Jan. 31, 1977; minimum recorded, 0.6 mg/L July 1, 1977.
EXTREMES FOR CURRENT YEAR.—
SPECIFIC CONDUCTANCE: Maximum recorded, 623 micromhos Sept. 26; minimum recorded, 74 micromhos April 1.
pH: Maximum recorded, 8.0 units Jan. 19, 20, 26, 27; minimum recorded, 6.7 units June 9.
WATER TEMPERATURE: Maximum, 31.0°C July 16, 25; minimum, 0.5°C Jan. 12, 13.
DISSOLVED OXYGEN: Maximum recorded, 13.2 mg/L Jan. 13; minimum recorded, 3.4 mg/L Aug. 18.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 16...	1000	110	354	340	7.6	7.6	20.0	16.0	6.8
NOV 13...	1400	128	359	326	7.4	7.4	17.5	13.0	6.9
DEC 18...	1340	254	222	210	7.5	7.5	10.5	7.0	10.0
JAN 22...	1040	282	262	243	7.7	7.6	6.0	5.0	11.0
FEB 23...	1330	1570	111	108	7.3	7.4	13.0	11.0	9.8
MAR 09...	1130	820	132	126	7.5	7.6	10.0	9.0	10.4
APR 14...	1130	828	152	142	7.4	7.4	26.5	19.5	7.3
MAY 20...	0945	1520	165	160	7.4	7.6	15.5	18.5	7.0
JUN 17...	0915	512	189	177	7.3	7.4	25.0	25.5	5.4
JUL 14...	0900	220	218	210	7.4	7.6	28.5	28.5	5.9
AUG 25...	1345	210	231	222	7.2	7.3	29.5	25.0	4.8
SEP 22...	0930	177	197	193	7.3	7.5	19.5	17.5	6.7

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
16...	11	27	1.4	4300	260	86	14	1.2	.040	1.69	1.80	9.5
NOV												
13...	6	28	1.5	9300	108	85	11	.43	.140	1.73	1.76	10
DEC												
18...	6	23	2.0	150	70	60	6	.22	.140	1.10	1.15	8.0
JAN												
22...	8	32	4.2	580	92	84	12	.20	.210	1.30	1.18	10
FEB												
23...	31	12	1.4	150	40	39	38	.42	.080	.50	.190	3.0
MAR												
09...	15	8	1.2	90	58	54	13	.29	.030	.30	.110	4.0
APR												
14...	12	12	1.8	930	--	55	25	.60	.070	.60	.580	3.2
MAY												
20...	80	29	2.5	--	64	65	160	.32	.060	1.00	.500	11
JUN												
17...	16	16	1.2	750	60	65	27	.48	.090	.60	.700	4.0
JUL												
14...	7	10	.8	<30	88	84	15	1.0	.040	.40	.760	3.5
AUG												
25...	23	27	1.9	930	98	59	37	2.3	.060	.60	1.29	6.5
SEP												
22...	13	26	.9	150	84	70	17	.67	.070	.50	.460	3.5

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	288	256	157	139	258	244	250	201	---	---
2	183	171	281	254	197	161	253	207	195	139	---	---
3	207	183	258	226	209	190	258	214	136	122	---	---
4	232	205	284	225	224	202	257	235	132	122	---	---
5	226	213	309	286	240	217	234	203	151	134	---	---
6	226	203	323	308	242	228	273	211	162	150	---	---
7	280	211	326	309	239	224	293	273	177	162	---	---
8	304	276	331	309	226	207	299	289	169	162	---	---
9	321	302	332	294	247	210	296	275	170	163	145	131
10	334	313	293	262	337	243	277	268	196	172	160	149
11	334	319	313	262	243	173	277	242	---	---	170	158
12	340	299	343	312	177	164	239	231	---	---	178	170
13	297	274	369	342	172	164	274	232	---	---	184	175
14	305	262	381	359	172	162	319	277	---	---	178	170
15	337	304	386	322	169	162	316	305	119	114	171	167
16	372	354	338	183	203	172	325	313	---	---	174	165
17	395	363	194	177	219	201	318	295	---	---	188	173
18	373	351	219	184	226	209	293	266	---	---	189	168
19	347	315	231	215	247	224	263	235	---	---	211	170
20	329	255	241	214	248	237	275	232	---	---	185	168
21	302	258	253	227	243	219	328	279	---	---	188	164
22	306	280	258	236	216	212	327	262	---	---	---	---
23	353	310	244	214	242	214	266	243	121	111	---	---
24	360	340	220	177	245	239	252	242	---	---	---	---
25	375	351	181	155	244	207	248	227	---	---	---	---
26	376	348	165	146	208	189	226	213	---	---	---	---
27	344	255	175	146	198	191	263	213	---	---	182	178
28	336	249	157	139	206	195	286	262	---	---	187	171
29	326	255	151	141	206	194	278	264	---	---	170	159
30	259	240	147	143	245	206	262	248	---	---	159	94
31	294	245	---	---	260	240	260	250	---	---	94	76
MONTH	395	171	386	139	337	139	328	203	250	111	211	76

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	98	74	182	173	126	121	203	193	349	279	284	231
2	107	95	185	176	121	111	204	198	290	228	327	250
3	112	106	177	166	131	114	206	192	245	228	275	244
4	128	113	175	161	145	125	201	189	275	229	261	245
5	128	112	201	177	125	94	188	184	344	278	278	257
6	122	97	210	200	119	101	188	184	301	264	245	195
7	113	103	223	207	134	115	255	188	311	296	192	151
8	124	111	224	216	130	89	221	200	306	181	148	114
9	150	126	230	218	105	91	251	221	190	180	153	126
10	142	133	218	188	144	105	271	249	191	180	182	154
11	147	138	206	169	179	134	284	271	265	180	203	180
12	139	133	167	113	171	144	276	238	285	228	227	202
13	145	134	192	159	155	150	237	217	255	242	219	181
14	156	148	216	194	158	151	274	214	264	244	188	173
15	164	157	231	214	161	154	275	260	284	260	256	188
16	171	165	227	153	184	161	319	253	278	246	322	254
17	175	167	193	170	191	181	275	246	249	228	249	187
18	195	163	199	156	197	188	303	273	305	164	207	185
19	170	149	238	193	206	195	311	269	202	168	213	183
20	169	153	204	164	211	200	270	233	246	192	201	186
21	183	172	---	---	202	186	290	230	263	184	210	174
22	188	179	---	---	186	173	322	286	211	180	268	173
23	195	183	---	---	223	182	357	324	188	166	483	270
24	210	159	---	---	232	219	369	340	178	170	517	298
25	163	124	---	---	240	227	376	329	269	180	597	349
26	129	121	---	---	239	232	395	215	308	269	623	357
27	140	122	---	---	232	206	206	173	315	304	452	354
28	163	143	---	---	208	197	276	190	320	311	---	---
29	170	163	---	---	204	198	305	278	337	321	---	---
30	184	168	---	---	199	193	318	293	331	259	333	280
31	---	---	126	118	---	---	354	320	286	225	---	---
MONTH	210	74	238	113	240	89	395	173	349	164	623	114
YEAR	623	74										

02387000 CONASAUGA RIVER AT TILTON, GA.—Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	7.5	7.4	7.4	7.3	7.6	7.5	7.8	7.7	---	---
2	7.4	7.3	7.6	7.5	7.4	7.3	7.7	7.6	7.7	7.4	---	---
3	7.4	7.3	7.6	7.5	7.4	7.2	7.8	7.7	7.8	7.6	---	---
4	7.4	7.3	7.7	7.5	7.4	7.4	7.8	7.7	7.7	7.3	---	---
5	7.4	7.4	7.5	7.4	7.5	7.4	7.8	7.7	7.4	7.3	---	---
6	7.5	7.4	7.5	7.4	7.5	7.5	7.7	7.6	7.5	7.3	---	---
7	7.6	7.4	7.5	7.4	7.6	7.5	7.6	7.5	7.5	7.4	---	---
8	7.5	7.4	7.5	7.4	7.6	7.6	7.6	7.6	7.7	7.5	---	---
9	7.5	7.5	7.5	7.4	7.7	7.6	7.7	7.6	7.7	7.6	7.7	7.5
10	7.6	7.5	7.6	7.5	7.6	7.5	7.7	7.6	7.6	7.3	7.7	7.6
11	7.6	7.5	7.6	7.5	7.6	7.4	7.7	7.6	---	---	7.7	7.5
12	7.6	7.5	7.5	7.4	7.4	7.4	7.7	7.6	---	---	7.7	7.6
13	7.7	7.5	7.5	7.4	7.4	7.3	7.8	7.4	---	---	7.6	7.5
14	7.8	7.6	7.5	7.4	7.4	7.3	7.8	7.6	---	---	7.6	7.5
15	7.7	7.6	7.5	7.4	7.5	7.4	7.9	7.8	---	---	7.7	7.5
16	7.7	7.6	7.6	7.3	7.5	7.4	7.8	7.8	---	---	7.8	7.6
17	7.7	7.6	7.4	7.4	7.5	7.4	7.8	7.7	---	---	7.7	7.5
18	7.6	7.6	7.4	7.3	7.5	7.4	7.8	7.7	---	---	7.7	7.5
19	7.6	7.5	7.3	7.3	7.5	7.4	8.0	7.7	---	---	7.6	7.5
20	7.6	7.5	7.3	7.3	7.4	7.4	8.0	7.8	---	---	7.5	7.4
21	7.6	7.4	7.4	7.3	7.4	7.3	7.8	7.7	---	---	7.6	7.4
22	7.5	7.4	7.4	7.3	7.4	7.4	7.7	7.6	---	---	7.6	7.5
23	7.7	7.5	7.4	7.4	7.4	7.4	7.7	7.6	7.4	7.3	7.5	7.5
24	7.6	7.5	7.4	7.3	7.6	7.5	7.7	7.6	7.5	7.4	7.5	7.5
25	7.6	7.5	7.4	7.2	7.5	7.4	7.8	7.7	7.6	7.5	7.5	7.5
26	7.6	7.5	7.3	7.2	7.5	7.4	8.0	7.8	7.6	7.6	7.5	7.4
27	7.7	7.5	7.2	7.2	7.6	7.4	8.0	7.8	---	---	7.4	7.3
28	7.7	7.4	7.3	7.2	7.7	7.6	7.8	7.7	---	---	7.4	7.3
29	7.6	7.4	7.4	7.2	7.8	7.6	7.8	7.7	---	---	7.5	7.3
30	7.4	7.3	7.4	7.3	7.8	7.6	7.8	7.7	---	---	7.5	7.2
31	7.5	7.4	---	---	7.6	7.6	7.8	7.7	---	---	7.3	7.2
MONTH	7.8	7.3	7.7	7.2	7.8	7.2	8.0	7.4	7.8	7.3	7.8	7.2

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.2	7.1	7.4	7.4	7.2	7.0	7.5	7.4	7.3	7.2	7.4	7.2
2	7.2	6.9	7.5	7.4	7.1	6.8	7.5	7.4	7.4	7.3	7.3	7.2
3	7.2	6.9	7.5	7.5	7.0	6.8	7.5	7.4	7.5	7.3	7.3	7.0
4	7.0	6.9	7.6	7.5	7.4	6.9	7.5	7.4	7.6	7.2	7.1	7.0
5	7.2	6.8	7.5	7.5	7.1	6.8	7.5	7.4	7.3	7.1	7.1	7.1
6	7.2	6.9	7.5	7.4	7.0	6.8	7.6	7.4	7.4	7.2	7.3	7.1
7	7.2	6.9	7.5	7.4	7.2	6.8	7.5	7.2	7.3	7.2	7.3	7.1
8	7.3	6.9	7.4	7.4	7.1	6.8	7.2	7.1	7.3	7.2	7.1	6.9
9	7.3	7.2	7.4	7.4	6.8	6.7	7.2	7.1	7.3	7.2	6.9	6.9
10	7.3	7.3	7.6	7.4	6.9	6.8	7.3	7.2	7.4	7.2	7.0	6.9
11	7.4	7.3	7.6	7.4	7.2	6.9	7.4	7.2	7.2	7.1	7.0	7.0
12	7.3	7.3	7.5	7.3	7.3	7.1	7.4	7.2	7.2	7.1	7.0	7.0
13	7.3	7.3	7.3	7.3	7.3	7.2	7.6	7.3	7.2	7.1	7.0	7.0
14	7.4	7.2	7.3	7.3	7.3	7.3	7.5	7.3	7.3	7.1	7.1	7.0
15	7.4	7.4	7.3	7.3	7.4	7.3	7.5	7.3	7.2	7.2	7.1	7.0
16	7.5	7.4	7.5	7.4	7.3	7.3	7.3	7.1	7.3	7.2	7.1	7.0
17	7.5	7.4	7.4	7.4	7.3	7.3	7.3	7.2	7.3	7.2	7.2	7.1
18	7.5	7.4	7.5	7.4	7.3	7.3	7.3	7.2	7.4	7.1	7.2	7.2
19	7.5	7.4	7.4	7.3	7.3	7.3	7.4	7.2	7.3	7.1	7.2	7.2
20	7.5	7.5	7.4	7.3	7.3	7.3	7.4	7.3	7.5	7.2	7.3	7.2
21	7.5	7.4	---	---	7.3	7.3	7.5	7.2	7.4	7.2	7.3	7.2
22	7.5	7.4	---	---	7.4	7.3	7.6	7.2	7.5	7.4	7.3	7.2
23	7.4	7.4	---	---	7.3	7.3	7.7	7.2	7.4	7.3	7.2	7.1
24	7.5	7.4	---	---	7.3	7.2	7.6	7.2	7.3	7.2	7.2	7.1
25	7.5	7.3	7.4	7.4	7.2	7.2	7.4	7.2	7.2	7.2	7.2	7.1
26	7.3	7.3	7.4	7.3	7.2	7.2	7.3	7.1	7.2	7.2	7.1	7.0
27	7.4	7.3	7.3	7.1	7.2	7.2	7.3	7.1	7.2	7.2	7.2	7.1
28	7.4	7.3	---	---	7.3	7.2	7.3	7.2	7.3	7.2	7.2	7.1
29	7.4	7.3	---	---	7.4	7.3	7.3	7.1	7.3	7.2	7.2	7.0
30	7.4	7.4	---	---	7.5	7.4	7.3	7.1	7.3	7.2	7.1	7.0
31	---	---	7.2	7.1	---	---	7.4	7.2	7.3	7.2	---	---
MONTH	7.5	6.8	7.6	7.1	7.5	6.7	7.7	7.1	7.6	7.1	7.4	6.9
YEAR	8.0	6.7										

02387000 CONASAUGA RIVER AT TILTON, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTORER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	13.5	12.0	7.0	5.0	7.0	6.0	6.0	5.5	---	---
2	20.0	19.0	14.0	12.0	8.5	7.0	6.5	4.5	6.5	5.0	---	---
3	20.0	18.5	14.0	12.5	8.5	7.0	5.5	4.0	---	---	---	---
4	19.0	17.0	15.0	13.5	7.5	6.5	6.0	3.5	4.0	4.0	---	---
5	17.5	16.0	15.0	13.5	7.5	6.0	3.0	1.5	4.0	3.5	---	---
6	16.5	14.5	14.5	12.5	8.0	6.5	3.0	1.5	4.5	3.5	---	---
7	16.5	14.0	14.5	12.0	8.5	7.5	4.5	3.0	4.5	4.0	---	---
8	18.0	15.0	15.5	13.0	9.0	7.5	4.5	3.0	5.5	4.5	---	---
9	20.0	17.0	16.0	14.5	11.5	9.0	5.0	4.0	5.0	4.0	10.0	9.0
10	21.0	18.0	16.5	14.0	12.5	11.5	4.5	3.0	6.5	5.0	10.5	9.0
11	21.5	19.5	14.5	12.5	11.0	9.5	3.0	1.0	---	---	11.0	9.5
12	19.5	17.0	13.5	11.5	9.5	8.5	1.5	.5	---	---	11.0	9.5
13	18.0	15.5	13.5	10.5	8.5	7.5	1.5	.5	---	---	11.0	9.5
14	16.5	14.0	14.5	12.0	8.5	7.0	2.0	1.5	---	---	11.5	10.0
15	17.0	14.0	15.5	14.5	7.0	5.5	3.0	2.5	5.0	4.0	11.0	9.5
16	18.5	16.0	15.5	13.5	8.0	7.0	3.5	3.0	---	---	11.5	10.0
17	20.0	18.0	13.5	13.0	8.0	7.0	3.5	3.0	---	---	12.0	9.5
18	21.0	18.5	13.0	11.5	7.5	6.0	3.5	3.0	---	---	11.5	10.5
19	22.0	20.0	11.0	10.0	7.0	6.5	3.5	3.0	---	---	11.0	10.0
20	20.0	17.0	10.0	8.5	6.5	4.5	4.0	3.5	---	---	11.0	9.5
21	17.5	16.0	9.0	7.5	4.5	3.0	5.0	4.5	---	---	10.5	9.5
22	18.0	16.0	9.0	8.0	3.0	2.0	5.5	5.0	---	---	10.0	9.5
23	18.0	16.0	9.0	8.5	4.5	2.0	6.0	5.0	11.0	10.5	9.5	9.0
24	17.0	16.0	10.5	8.5	6.0	5.0	5.5	5.0	11.0	10.0	10.5	9.0
25	16.5	14.5	10.5	9.5	5.0	2.0	5.5	5.0	11.0	10.0	11.5	9.5
26	15.0	13.0	9.5	9.0	2.0	1.5	5.5	5.0	11.0	10.0	12.5	10.0
27	14.5	13.0	9.0	8.5	2.5	1.5	6.5	5.5	---	---	13.0	11.0
28	15.5	13.5	8.5	7.0	3.0	1.5	7.5	6.5	---	---	14.0	12.0
29	15.5	13.5	7.5	6.5	4.5	3.0	7.0	6.0	---	---	14.0	12.5
30	14.0	13.5	7.0	5.5	6.0	4.5	7.0	6.0	---	---	---	---
31	14.0	12.5	---	---	7.0	5.5	6.5	6.0	---	---	---	---
MONTH	22.0	12.5	16.5	5.5	12.5	1.5	7.5	.5	11.0	3.5	14.0	9.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	21.0	19.5	20.5	20.0	26.0	25.0	27.5	26.0	25.5	25.0
2	---	---	20.5	18.5	24.0	20.0	25.5	24.5	27.5	25.5	26.0	25.0
3	---	---	19.5	17.5	24.0	22.0	25.5	24.5	28.0	26.0	26.0	25.0
4	---	---	19.0	17.0	24.5	21.5	26.0	25.0	27.5	26.0	27.0	25.5
5	---	---	20.0	18.0	24.0	22.0	26.5	25.5	29.0	26.0	27.0	26.0
6	---	---	20.0	19.0	25.0	22.5	27.5	26.0	28.0	26.0	26.5	25.0
7	---	---	20.0	19.0	25.0	21.5	28.0	26.5	29.0	26.0	25.5	24.0
8	---	---	20.5	19.0	23.5	21.5	29.0	27.0	29.0	26.5	24.5	23.0
9	16.0	14.5	20.5	18.5	25.5	22.0	30.0	28.0	28.0	26.0	24.5	23.0
10	17.0	16.0	20.5	19.5	26.0	24.0	30.0	28.0	27.5	26.0	24.0	22.0
11	18.5	17.0	19.5	17.0	25.5	23.5	30.5	28.5	26.5	26.0	24.0	22.5
12	19.5	18.0	17.5	16.5	24.0	23.0	30.5	28.5	27.5	26.0	24.5	23.0
13	20.5	18.5	18.5	16.0	24.5	23.5	30.5	28.0	27.5	25.5	24.5	23.0
14	21.0	19.5	19.0	17.0	25.5	24.0	30.0	28.0	28.0	26.0	24.5	23.0
15	20.5	19.5	19.0	18.0	26.0	24.5	30.0	27.5	27.5	26.0	24.0	23.0
16	19.5	18.5	17.5	16.5	26.5	25.0	31.0	28.5	27.0	26.0	25.0	23.0
17	18.5	17.5	17.0	16.5	27.0	25.5	30.5	28.5	27.0	25.5	24.0	22.0
18	19.0	17.5	18.5	16.0	27.5	25.5	30.5	28.5	25.5	24.0	21.5	19.0
19	20.0	18.5	20.0	18.0	27.0	25.5	30.5	28.5	24.0	24.0	19.0	17.0
20	19.5	19.0	19.0	18.0	27.0	25.5	29.5	27.0	24.5	24.0	18.5	17.0
21	20.0	18.5	---	---	27.5	25.5	30.0	27.0	24.5	23.0	19.0	17.0
22	19.0	18.5	---	---	27.0	25.5	30.5	27.0	24.0	23.0	20.0	17.5
23	19.0	18.0	---	---	27.5	25.5	30.5	27.0	24.5	22.5	22.0	19.0
24	19.0	18.0	---	---	28.5	26.0	30.0	27.5	25.0	23.0	21.5	19.0
25	18.0	17.0	21.0	19.0	28.0	26.5	31.0	28.5	25.5	24.0	21.5	19.0
26	18.5	16.5	20.5	19.5	28.5	26.5	30.5	29.0	26.5	24.5	22.5	19.5
27	19.0	17.0	20.5	19.5	27.5	26.0	29.5	28.0	26.5	24.5	21.5	19.5
28	20.0	18.0	---	---	27.0	25.5	30.5	28.0	27.0	24.5	22.0	20.0
29	20.5	19.0	---	---	26.5	25.0	29.0	27.5	27.0	24.5	21.5	19.5
30	21.0	19.0	---	---	27.0	25.5	29.0	27.0	26.5	24.5	22.0	19.5
31	---	---	21.0	20.0	---	---	28.5	26.5	26.0	24.5	---	---
MONTH	21.0	14.5	21.0	16.0	28.5	20.0	31.0	24.5	29.0	22.5	27.0	17.0
YEAR	31.0	.5										

02387000 CONASAUGA RIVER AT TILTON, GA.—Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	7.8	7.5	10.9	10.6	10.7	10.4	11.2	10.5	---	---
2	6.8	6.4	8.0	7.6	10.5	9.9	11.4	10.5	11.3	10.2	---	---
3	6.4	5.9	8.3	7.9	9.9	9.5	11.6	11.1	---	---	---	---
4	6.2	5.9	8.1	7.2	9.9	9.6	11.7	11.2	12.0	11.6	---	---
5	6.8	6.2	7.1	6.4	9.9	9.8	12.3	11.6	12.2	11.9	---	---
6	7.4	6.8	6.7	6.4	10.0	9.8	12.4	11.7	12.3	12.1	---	---
7	7.5	7.1	6.9	6.5	10.0	9.8	11.9	11.5	12.0	11.8	---	---
8	7.3	6.8	6.6	6.1	10.1	9.8	11.8	11.4	11.8	11.5	---	---
9	6.8	6.2	6.7	6.1	9.9	8.7	11.8	11.4	11.8	11.4	10.6	9.3
10	6.4	5.6	7.0	6.3	8.7	7.6	12.0	11.7	11.4	11.2	9.4	9.2
11	6.2	5.4	7.2	6.5	9.2	8.7	12.4	11.7	---	---	9.4	9.2
12	6.4	5.5	7.1	6.4	9.8	9.3	13.0	12.4	---	---	9.4	9.1
13	7.1	6.0	7.0	6.4	10.2	9.8	13.2	12.7	---	---	9.4	9.0
14	7.8	6.6	6.8	6.1	10.4	10.0	12.6	12.0	---	---	9.5	9.0
15	7.9	7.0	6.9	6.1	10.7	10.3	12.0	11.6	12.1	11.7	9.8	9.2
16	7.4	6.1	7.4	5.7	10.6	10.0	11.7	11.5	---	---	9.9	9.3
17	6.5	5.5	7.7	7.2	10.2	9.9	12.0	11.5	---	---	10.0	9.3
18	5.8	5.2	7.7	7.4	10.2	9.9	12.3	11.9	---	---	9.7	9.3
19	5.4	4.9	8.2	7.7	10.2	10.0	12.7	12.2	---	---	9.4	8.8
20	6.0	5.0	8.9	8.2	10.3	10.1	12.7	11.8	---	---	10.0	9.2
21	6.2	5.9	9.3	9.0	11.0	10.4	11.7	10.4	---	---	10.5	9.8
22	6.6	6.2	9.6	9.3	11.5	11.1	11.0	10.3	---	---	10.4	10.0
23	6.8	6.0	9.8	9.6	11.7	11.2	10.7	10.1	10.4	9.8	10.4	10.0
24	6.5	5.9	9.9	9.0	11.4	10.6	11.0	10.4	10.6	10.4	10.7	10.3
25	6.5	6.0	9.3	8.9	11.3	10.6	11.2	10.7	10.8	10.6	10.6	10.3
26	6.6	---	9.5	9.3	12.0	11.4	11.6	11.2	10.8	10.6	10.3	9.8
27	7.8	6.5	9.5	9.2	12.3	12.0	11.3	9.9	---	---	10.1	9.4
28	8.1	6.7	9.9	9.6	12.5	12.2	10.0	9.4	---	---	9.8	9.1
29	7.5	6.4	10.4	9.9	12.2	11.7	10.1	9.5	---	---	9.5	8.8
30	7.1	6.9	10.7	10.4	11.8	10.9	10.5	9.9	---	---	---	---
31	7.6	7.1	---	---	11.0	10.4	10.6	10.2	---	---	---	---
MONTH	8.1	4.9	10.7	5.7	12.5	7.6	13.2	9.4	12.3	9.8	10.7	8.8

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	6.8	6.6	6.8	5.9	6.4	5.5	5.3	3.9	4.9	4.1
2	---	---	7.0	6.7	6.7	6.1	6.4	5.7	5.5	4.2	4.3	3.2
3	---	---	7.6	7.1	---	---	7.2	6.1	6.5	5.3	4.1	3.6
4	---	---	8.0	7.5	---	---	7.2	6.4	7.0	4.8	4.0	3.6
5	---	---	7.7	7.4	---	---	7.3	6.4	5.5	3.9	4.0	3.4
6	---	---	7.4	6.8	---	---	7.6	6.6	6.1	4.4	5.3	4.0
7	---	---	6.8	6.3	---	---	7.0	5.3	4.9	3.6	5.3	4.7
8	---	---	6.6	6.2	---	---	6.1	4.8	4.4	3.3	6.0	5.0
9	8.5	8.1	6.7	6.3	---	---	5.5	4.5	5.0	4.4	6.0	5.2
10	8.2	8.0	6.9	6.4	---	---	6.0	4.7	5.0	4.2	5.3	5.1
11	8.0	7.6	7.3	6.2	---	---	5.8	4.5	4.4	3.8	5.1	4.6
12	7.6	7.4	7.4	6.9	7.0	6.5	6.3	4.5	4.1	3.6	4.5	3.8
13	7.6	7.2	6.9	6.7	7.1	6.8	7.0	5.3	3.9	3.7	4.3	3.9
14	7.4	7.0	6.8	6.4	7.0	6.8	6.6	5.3	4.2	3.6	4.8	4.3
15	7.3	7.0	6.3	5.9	6.6	6.5	6.5	4.5	4.1	3.5	4.9	4.4
16	7.7	7.2	7.3	6.4	6.3	5.7	4.9	3.4	4.4	3.7	4.7	3.3
17	8.0	7.7	7.2	7.0	5.5	5.4	5.4	4.4	4.8	3.7	5.2	4.1
18	8.1	7.2	7.5	7.2	5.4	5.3	5.1	3.9	5.2	2.4	5.7	5.3
19	7.6	7.3	7.2	6.2	5.5	5.3	5.8	4.2	4.9	4.3	6.2	5.8
20	7.6	7.3	7.2	6.4	5.4	5.3	5.8	4.7	5.8	4.6	6.6	6.3
21	7.5	7.2	---	---	5.6	5.3	6.7	5.2	6.2	4.9	6.9	6.6
22	7.5	7.3	---	---	5.9	5.5	7.4	5.0	6.6	5.9	7.0	6.3
23	7.5	7.3	---	---	5.6	4.9	8.3	4.9	6.6	5.8	6.5	5.7
24	7.8	7.0	---	---	4.9	4.3	7.6	4.3	5.8	5.1	6.5	5.3
25	7.9	7.7	6.7	6.5	4.2	3.3	6.0	3.9	5.4	4.4	6.2	4.5
26	8.2	7.9	6.5	6.2	3.8	3.2	4.8	2.6	4.5	3.8	5.4	4.5
27	8.2	7.7	6.6	5.2	4.4	3.5	4.6	3.7	4.2	3.6	6.2	5.2
28	7.6	7.3	---	---	5.3	4.3	4.8	3.9	4.3	3.5	6.4	5.7
29	7.3	7.0	---	---	6.2	5.0	4.7	2.9	4.5	3.5	6.7	5.4
30	7.1	6.8	---	---	6.6	5.4	4.9	3.3	4.5	3.8	6.3	5.2
31	---	---	7.0	6.0	---	---	5.7	3.8	4.8	3.6	---	---
MONTH	8.5	6.8	8.0	5.2	7.1	3.2	8.3	2.6	7.0	2.4	7.0	3.2
YEAR	13.2	2.4										

02387050 CONASAUGA RIVER NEAR RESACA, GA.

LOCATION.—Lat 34°35'36", long 84°56'02", Gordon County, Hydrologic Unit 03150101, at county highway bridge, 1.1 mi (1.8 km) northeast of Resaca, and 5.1 mi (8.2 km) upstream from confluence with Coosawattee River.

DRAINAGE AREA.—706 mi^2 (1,830 km^2).

PERIOD OF RECORD.—August 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 28...	0945	225	7.6	7.8	13.5	14.5	7.9
NOV 24...	1230	151	--	7.4	15.0	10.0	9.5
DEC 08...	1100	198	7.4	7.5	15.0	8.0	8.5
JAN 27...	1400	198	7.6	7.7	16.5	6.5	10.4
FEB 25...	1145	1250	--	7.4	15.5	9.5	8.8
MAR 24...	1215	750	7.2	7.6	14.0	9.5	9.6
APR 28...	1300	610	--	7.5	30.0	19.0	6.7
MAY 26...	1000	305	7.1	7.5	23.0	21.0	4.8
JUN 23...	1100	325	7.5	7.6	30.0	27.0	5.4
JUL 27...	1200	240	7.3	7.4	34.0	28.0	5.1
AUG 25...	1245	180	7.6	7.4	32.0	24.5	4.7
SEP 29...	0940	140	7.7	7.4	23.0	20.0	5.7

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 28...	270	10	1.8	750	97	87	.31	.230	.820	5.5
NOV 24...	179	23	2.4	2300	64	64	.32	.140	.540	6.0
DEC 08...	223	9	1.7	230	54	69	.26	.240	.760	10
JAN 27...	195	6	2.2	9300	84	79	.18	.120	.420	6.0
FEB 25...	133	18	1.6	40	50	45	.47	.090	.340	3.0
MAR 24...	170	12	1.4	230	74	65	.90	.060	.480	3.0
APR 28...	142	21	1.3	430	54	48	.98	.060	.550	5.0
MAY 26...	--	--	1.4	230	64	64	--	--	.320	4.0
JUN 23...	169	14	1.0	150	82	66	.70	.070	.390	2.5
JUL 27...	223	20	1.3	40	94	80	.44	.090	.610	4.0
AUG 25...	173	33	1.8	--	74	59	.65	.160	.520	9.5
SEP 29...	205	15	1.0	90	94	76	.51	.120	.670	2.0

02387500 OOSTANAULA RIVER AT RESACA, GA.

LOCATION.—Lat 34°34'42", long 84°56'29", Gordon County, Hydrologic Unit 03150103, near left bank on downstream side of pier of bridge on U.S. Highway 41 at Resaca, 200 ft (61 m) downstream from Nashville, Chattanooga, & St. Louis Railway bridge, 0.8 mi (1.3 km) upstream from Camp Creek, and 3.5 mi (5.6 km) downstream from confluence of Conasauga and Coosawattee Rivers.

DRAINAGE AREA.—1,600 mi^2 (4,140 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1892 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1892 are contained in reports of National Weather Service.

REVISED RECORDS.—WSP 697: 1896-1928. WSP 1504: 1897-1903, 1905-07, 1909, 1912-13, 1914-15(M), 1916-18, 1919(M), 1920-22, 1923(M), 1924, 1927, 1929-30, 1932, 1933(M), 1936(M), 1938(M), 1946-47(M). WRD GA-80-1: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 604.14 ft (184.142 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Since June 1, 1979, auxiliary water-stage recorder at Calhoun water-works intake 6.5 mi (10.5 km) downstream. Oct. 28, 1948, to May 31, 1979, nonrecording auxiliary gage located at State Highway 136 connector 7.1 mi (11.4 km) downstream.

REMARKS.—Records good. Discharges for Oct. 1-23 computed on basis of record collected at auxiliary gage. Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400).

AVERAGE DISCHARGE.—89 years, 2,811 ft^3/s (79.6 m^3/s), 23.80 in/yr (605 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 54,800 ft^3/s (1,550 m^3/s) Mar. 31, 1951; maximum gage height, 34.6 ft (10.55 m) Mar. 31, 1951; minimum discharge observed, 180 ft^3/s (5.10 m^3/s) Sept. 7, 8, 1925, gage height, 0.5 ft (0.15 m).

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1834, 36.6 ft (11.16 m) Apr. 1, 1886, from information by Georgia Department of Archives; discharge, 68,600 ft^3/s (1,940 m^3/s).

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 11,400 ft^3/s (323 m^3/s) Mar. 31, gage height, 16.34 ft (4.980 m); minimum daily discharge, 505 ft^3/s (14.3 m^3/s) Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3120	756	1570	880	801	1870	10700	1240	3220	850	648	704
2	1950	704	1460	742	2790	1830	6950	1120	4980	1110	640	849
3	1030	665	1000	722	4700	2080	3920	1010	3520	885	668	967
4	808	662	924	757	3170	2160	3120	918	6080	774	732	1570
5	700	915	923	750	1700	2900	3870	1120	8000	790	664	1450
6	590	865	893	899	1410	3620	6060	1300	7800	794	662	967
7	820	738	850	2070	1260	2990	5500	1290	5700	1120	719	1110
8	1120	805	844	780	1210	2170	4040	1300	7000	1960	883	1440
9	605	616	1300	776	1670	1970	3290	1340	7550	840	1030	1270
10	540	598	1560	774	2550	1810	2770	1310	4640	696	756	899
11	505	585	1730	730	9930	1430	2670	1470	2440	676	715	895
12	890	570	1700	728	10600	1350	2400	1950	2850	835	771	1200
13	752	616	1260	717	9750	1300	2370	1290	1680	640	780	733
14	665	615	1100	731	5100	1260	1730	1080	1580	738	729	744
15	525	718	1250	684	2860	1220	1820	1060	1450	756	683	955
16	540	2360	1330	701	2190	1660	1650	1220	1500	960	641	927
17	535	2060	1120	725	2160	1700	1760	1320	1310	850	585	1110
18	530	1450	1240	728	6160	1220	1780	1440	1300	766	857	1110
19	1120	1030	846	678	9110	1400	1890	1300	1300	752	1010	900
20	2000	982	818	694	10000	1220	1820	2000	1250	786	769	670
21	1020	947	791	755	9520	1070	1770	2210	1270	746	1040	648
22	930	1030	777	854	5740	1020	1410	1590	1410	644	1470	647
23	610	1420	789	900	3340	1140	1190	1020	1230	637	1220	629
24	553	2190	791	887	3300	1270	1460	890	1240	606	785	682
25	570	2820	1190	821	2570	1240	2330	836	1080	634	702	781
26	585	2450	1180	766	2700	1120	1710	985	925	704	682	798
27	895	1650	975	754	2300	1040	1300	2110	925	794	650	854
28	1200	1520	785	896	1980	986	1830	3340	880	686	634	805
29	1340	1520	795	942	---	955	1930	3940	794	648	628	1720
30	2070	1900	1210	973	---	5060	1350	2890	825	612	643	774
31	1180	---	1070	905	---	11000	---	1360	---	619	688	---
TOTAL	30298	35757	34071	25719	120571	63061	86390	47249	85729	24908	24084	28808
MEAN	977	1192	1099	830	4306	2034	2880	1524	2858	803	777	960
MAX	3120	2820	1730	2070	10600	11000	10700	3940	8000	1960	1470	1720
MIN	505	570	777	678	801	955	1190	836	794	606	585	629

CAL YR 1980 TOTAL 1236141 MEAN 3377 MAX 26700 MIN 470 MEAN† 3385 CFSM† 2.12 IN† 28.72
WTR YR 1981 TOTAL 606645 MEAN 1662 MAX 11000 MIN 505 MEAN† 1652 CFSM† 1.03 IN† 14.02

† ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02387500 OOSTANAULA RIVER AT RESACA, GA.—Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	2.41	3.78	2.43	2.27	4.72	15.60	3.47	6.83	2.48	2.00	2.13
2	---	2.26	3.55	2.11	5.82	4.63	11.64	3.22	9.35	3.00	1.98	2.49
3	---	2.15	2.66	2.05	8.70	5.12	7.96	2.99	7.38	2.52	2.07	1.74
4	---	2.14	2.50	2.15	6.52	5.27	6.81	2.82	10.70	2.41	2.24	3.94
5	---	2.75	2.50	2.13	4.08	6.47	7.84	3.21	---	2.34	2.05	3.69
6	---	2.66	2.44	2.45	3.50	7.53	10.70	3.58	---	2.35	2.04	2.72
7	---	2.36	2.35	4.70	3.20	6.62	10.00	3.56	---	3.07	2.20	3.01
8	---	2.54	2.34	2.21	3.10	5.27	8.13	3.57	11.78	4.70	2.59	3.67
9	---	2.01	3.24	2.20	4.02	4.90	7.06	3.65	12.28	2.47	2.89	3.33
10	---	1.95	3.78	2.20	5.36	4.58	6.27	3.61	8.64	2.14	2.30	2.59
11	---	1.92	4.11	2.08	14.73	3.83	6.12	3.93	5.56	2.08	2.18	2.58
12	---	1.88	4.04	2.07	15.44	3.68	5.66	4.88	6.20	2.47	2.33	3.18
13	---	2.01	3.16	2.04	14.55	3.58	5.61	3.56	4.16	1.99	2.36	2.20
14	---	2.01	2.85	2.08	9.24	3.50	4.44	3.14	3.95	2.26	2.22	2.22
15	---	2.24	3.16	1.94	6.32	3.41	4.62	3.09	3.69	2.31	2.09	2.69
16	---	5.49	3.30	1.99	5.20	4.30	4.28	3.41	3.79	2.75	1.97	2.63
17	---	4.87	2.90	2.06	5.11	4.38	4.49	3.62	3.41	2.53	1.81	3.00
18	---	3.58	3.14	2.07	10.75	3.42	4.55	3.85	3.40	2.34	2.43	3.02
19	---	2.73	2.35	1.93	14.01	3.78	4.76	3.57	3.39	2.30	2.82	2.61
20	---	2.63	2.29	1.97	14.92	3.41	4.61	4.92	3.28	2.39	2.32	1.98
21	---	2.56	2.23	2.15	14.42	3.12	4.53	5.35	3.33	2.28	2.88	1.95
22	---	2.73	2.20	2.38	10.20	3.02	3.79	4.16	3.52	1.99	3.76	1.95
23	2.05	3.48	2.23	2.47	7.13	3.26	3.35	3.01	3.22	1.97	3.25	1.90
24	1.83	4.96	2.23	2.44	7.07	3.53	3.90	2.76	3.20	1.88	2.36	2.05
25	1.88	6.03	3.03	2.32	5.94	3.46	5.55	2.65	2.94	1.96	2.14	2.33
26	1.97	5.38	3.02	2.19	6.17	3.22	4.41	2.95	2.63	2.16	2.07	2.37
27	2.70	3.94	2.61	2.15	5.51	3.07	3.59	5.12	2.63	2.41	1.98	2.50
28	3.32	3.68	2.22	2.47	4.94	2.95	4.63	7.12	2.54	2.11	1.93	2.39
29	3.62	3.67	2.23	2.56	---	2.89	4.83	7.97	2.36	2.00	1.91	4.21
30	5.03	4.45	3.08	2.63	---	8.86	3.67	6.39	2.43	1.90	1.96	2.40
31	3.30	---	2.79	2.49	---	15.93	---	3.69	---	1.92	2.09	---
MEAN	---	3.12	2.85	2.29	7.79	4.70	6.11	3.96	---	2.37	2.30	2.65
MAX	---	6.03	4.11	4.70	15.44	15.93	15.60	7.97	---	4.70	3.76	4.21
MIN	---	1.88	2.20	1.93	2.27	2.89	3.35	2.65	---	1.88	1.81	1.74

02387500 OOSTANAULA RIVER AT RESACA, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to June 1974, April to September 1981.
PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: July 1967 to current year.
INSTRUMENTATION.--Water-temperature recorder since July 1967.
REMARKS.--No daily water-temperature record Dec. 1-23.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum recorded, 28.5°C Aug. 21, 1980; minimum recorded, 1.0°C Jan. 9-14, 1970, Jan. 16, 17, 21-24, Feb. 1, 1977, Jan. 12, 13, 1981.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum, 28.0°C July 28, 29; minimum, 1.0°C Jan. 12, 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
APR				
30...	1045	1310	28	99
30...	1050	1310	23	96
JUN				
08...	1600	7060	198	3770
08...	1615	7060	200	3810
JUL				
23...	1345	648	25	44
23...	1400	648	24	42
AUG				
05...	1300	654	26	46
SEP				
24...	1330	679	20	37
24...	1400	679	20	37

DATE	TIME	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
APR										
30...	1100	1	1	4	15	41	80	93	99	100
30...	1105	--	--	--	3	60	96	99	100	--
30...	1110	0	1	3	6	68	94	99	100	--

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.0	20.0	14.0	13.0	---	---	6.0	5.0	6.5	5.5	11.0	10.5
2	21.0	20.5	14.5	13.0	---	---	6.0	5.5	6.0	5.5	11.5	11.0
3	20.0	19.5	15.0	14.0	---	---	6.0	4.5	5.0	4.5	11.0	10.0
4	19.5	18.0	16.0	15.0	---	---	6.0	4.5	4.5	4.0	10.0	9.0
5	18.0	17.0	15.5	14.5	---	---	4.5	3.0	4.0	3.0	9.5	9.0
6	17.5	16.0	14.5	13.5	---	---	6.0	3.0	5.0	3.5	9.5	9.5
7	18.0	15.5	14.0	12.5	---	---	7.5	5.0	5.0	4.5	9.5	9.0
8	19.0	18.0	15.0	14.0	---	---	5.0	4.0	6.5	5.0	9.5	9.0
9	19.5	17.5	16.0	15.0	---	---	5.0	3.5	6.0	5.5	9.5	9.0
10	20.0	18.0	16.0	15.0	---	---	4.5	3.5	6.0	5.5	10.0	9.0
11	20.0	19.0	15.5	13.5	---	---	3.5	2.5	6.5	6.5	10.5	9.0
12	19.0	18.0	13.5	12.0	---	---	2.5	1.0	6.5	4.0	11.0	9.5
13	18.0	17.0	12.5	11.0	---	---	2.5	1.0	4.0	3.5	11.0	9.5
14	17.5	15.5	14.0	12.5	---	---	4.0	2.0	5.0	4.0	11.5	10.0
15	17.0	15.5	15.0	14.0	---	---	4.0	3.0	6.0	5.0	11.0	9.5
16	18.5	16.5	15.0	14.5	---	---	4.5	3.5	7.5	6.0	10.5	10.0
17	19.5	18.0	15.0	13.5	---	---	4.0	2.5	9.0	7.5	11.0	9.5
18	20.0	19.5	13.5	12.0	---	---	3.5	2.0	10.0	9.5	11.0	10.5
19	20.5	20.0	12.0	10.5	---	---	4.5	2.5	10.5	10.0	10.5	9.5
20	20.0	18.5	10.5	9.5	---	---	5.0	4.5	10.5	10.0	11.0	9.0
21	18.5	17.0	10.0	9.0	---	---	5.0	5.0	10.0	10.0	10.5	9.5
22	18.0	16.5	10.5	9.0	---	---	5.5	5.0	10.5	10.0	10.0	9.5
23	17.5	16.5	11.5	11.0	---	---	6.5	5.5	10.5	10.5	9.5	9.0
24	17.0	16.5	11.5	10.5	6.5	6.0	6.5	5.0	10.5	9.5	11.0	9.0
25	16.5	15.0	11.0	10.0	6.5	5.0	6.5	5.0	10.0	9.5	11.5	10.0
26	15.0	14.0	10.5	10.0	5.0	4.0	7.0	6.0	9.5	9.0	13.0	10.5
27	16.0	14.0	10.0	9.5	4.5	4.0	8.0	7.0	10.5	9.5	14.0	11.5
28	15.5	15.5	9.5	8.5	5.0	3.5	8.0	7.0	10.5	10.0	15.0	12.5
29	15.5	15.0	8.5	7.5	6.0	4.5	7.5	6.0	---	---	15.0	14.0
30	16.0	15.0	9.5	8.0	6.0	6.0	7.5	7.0	---	---	15.0	14.0
31	15.5	14.5	---	---	6.0	5.5	7.0	6.0	---	---	15.5	15.0
MONTH	21.0	14.0	16.0	7.5	6.5	3.5	8.0	1.0	10.5	3.0	15.5	9.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	15.5	19.5	18.5	21.0	19.5	25.0	23.0	24.0	23.0	25.5	24.5
2	16.0	15.0	19.0	17.0	20.0	19.5	23.0	21.5	24.5	23.0	25.0	24.0
3	15.0	14.5	19.0	16.5	20.5	20.0	23.0	21.5	26.0	24.0	25.5	24.5
4	15.5	15.0	19.0	17.0	21.0	20.5	23.5	22.5	26.0	25.0	24.5	24.5
5	16.5	15.5	19.0	17.5	21.0	20.5	24.0	22.5	26.5	24.5	25.0	24.5
6	16.5	15.5	18.0	17.5	21.5	21.0	24.5	22.5	27.0	25.5	26.0	25.0
7	15.0	14.0	18.0	17.5	21.5	21.0	24.5	23.0	27.0	25.0	25.5	24.5
8	14.5	14.0	17.5	16.0	21.0	21.0	24.0	21.5	26.0	24.5	25.0	24.0
9	14.5	14.5	17.5	16.5	21.0	21.0	26.5	24.0	27.0	25.5	24.0	23.0
10	16.5	14.5	18.0	17.5	22.0	21.0	27.0	25.0	26.0	25.0	23.5	22.0
11	17.0	16.5	18.0	17.5	22.5	21.5	27.0	25.5	25.5	24.5	24.0	22.0
12	17.5	17.0	17.5	16.5	22.0	21.5	26.0	23.5	26.0	24.5	24.0	23.5
13	18.5	17.0	17.5	16.0	24.0	22.5	27.0	25.5	26.0	25.0	24.5	22.5
14	20.0	18.5	18.0	16.5	24.5	23.5	27.0	25.5	26.0	24.5	24.5	23.0
15	18.5	17.0	17.5	16.5	25.5	23.5	26.5	25.0	26.0	24.5	24.5	23.5
16	17.0	16.0	16.5	15.5	25.0	24.0	26.5	24.0	26.0	25.0	24.0	23.0
17	16.0	16.0	16.0	15.5	25.5	24.0	27.0	25.5	26.0	25.0	23.5	22.0
18	18.0	16.0	17.5	15.5	25.0	22.5	26.0	25.0	26.0	24.5	22.0	20.0
19	18.5	17.5	19.0	17.5	24.0	22.5	26.5	24.5	24.5	23.0	20.0	19.0
20	19.0	18.5	19.0	17.5	23.5	22.5	27.5	25.0	23.5	23.0	20.0	18.5
21	18.5	17.5	17.5	16.5	24.0	22.5	27.0	25.5	24.0	22.5	20.0	18.5
22	18.0	17.5	19.0	17.5	23.5	23.0	26.5	25.0	23.5	22.5	20.5	18.5
23	18.0	17.5	20.5	18.0	25.0	23.5	26.5	24.5	24.0	22.5	21.0	19.5
24	19.0	17.5	21.0	19.0	25.0	23.0	26.5	24.5	25.0	23.0	21.0	19.5
25	18.5	17.5	20.5	19.0	25.5	23.5	27.0	25.0	25.0	23.5	21.5	20.0
26	18.5	16.5	20.5	19.0	25.5	24.0	27.5	26.0	25.0	23.5	22.0	20.5
27	19.5	17.5	19.0	18.5	25.0	23.5	27.5	26.0	25.0	23.5	22.0	20.5
28	19.5	17.5	19.0	18.5	24.5	23.0	28.0	26.0	25.0	23.5	22.5	21.0
29	17.5	16.5	18.5	17.5	24.5	23.0	28.0	26.0	25.0	23.5	21.5	21.5
30	20.0	17.0	20.0	18.0	25.5	23.5	26.0	24.5	25.5	24.0	21.5	20.0
31	---	---	21.5	20.0	---	---	24.5	23.5	25.5	24.5	---	---
MONTH	20.0	14.0	21.5	15.5	25.5	19.5	28.0	21.5	27.0	22.5	26.0	18.5
YEAR	28.0	1.0										

02387502 OOSTANAULA RIVER BELOW RESACA, GA.

LOCATION.--Lat 34°34'17", long 84°56'49", Gordon County, Hydrologic Unit 03150103, at bridge on Interstate Highway 75, 0.4 mi (0.6 km) west of Resaca, and 0.4 mi (0.6 km) upstream from Camp Creek.

DRAINAGE AREA.--1,600 mi^2 (4,140 km^2), revised.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Carters Lake and Carters re-regulation reservoir. (See "Lakes and Reservoirs in Mobile River Basin", stations 02381400 and 02382400.) Discharge obtained from gaging station 02387500, Oostanaula River at Resaca, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 28...	0915	1060	7.4	7.5	13.0	14.5	7.8
NOV 24...	1145	2360	--	7.2	15.0	11.0	9.7
DEC 08...	1030	806	7.2	7.5	15.0	9.0	9.2
JAN 27...	1330	763	7.6	7.6	16.0	7.0	11.1
FEB 25...	1215	2460	--	7.3	17.0	9.0	9.2
MAR 24...	1245	1300	7.4	7.7	14.5	10.0	10.0
APR 28...	1345	1940	--	7.3	31.5	17.5	8.3
MAY 26...	0915	930	7.3	7.5	22.0	19.0	5.8
JUN 23...	1015	1180	7.5	7.6	29.0	24.0	7.0
JUL 27...	1130	810	7.4	7.3	35.0	26.5	5.2
AUG 25...	1330	714	7.5	7.4	32.5	24.5	6.3
SEP 29...	0900	2240	--	6.9	19.5	21.5	7.6

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 28...	140	11	1.5	2100	50	48	.20	.020	.400	5.5
NOV 24...	112	17	1.1	4300	40	37	.22	.080	.230	4.0
DEC 08...	136	5	.8	80	50	46	.24	.080	.240	4.0
JAN 27...	128	6	.9	70	56	49	.21	.050	.200	1.0
FEB 25...	102	15	1.3	90	38	34	.39	.050	.130	1.0
MAR 24...	132	10	1.0	150	60	55	.32	.030	.140	1.5
APR 28...	78	16	1.1	40	38	29	.30	.020	.120	3.0
MAY 26...	107	12	.8	430	40	42	.28	.040	.130	<1.0
JUN 23...	104	11	.7	40	46	40	.30	.020	.120	<1.0
JUL 27...	176	20	1.7	230	62	53	.37	.110	.780	5.0
AUG 25...	108	25	1.5	--	50	40	.30	.020	.220	2.2
SEP 29...	58	20	.6	430	24	17	.10	<.020	.120	1.0

02388000 WEST ARMUCHEE CREEK NEAR SUBLIGNA, GA.

LOCATION.—Lat 34°34'04", long 85°09'16", Chattooga County, Hydrologic Unit 03150103, on left bank 500 ft (152 m) downstream from bridge on county road, 1 mi (1.6 km) upstream from Ruff Creek, and 2 mi (3.2 km) east of Subligna.
DRAINAGE AREA.—36.4 mi^2 (94.3 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—April 1939 to June 1940, May 1960 to current year. Monthly discharge only for some periods, published in WSP 1304.
REVISED RECORDS.—WRD GA-80-1: Drainage area.
GAGE.—Water-stage recorder. Altitude of gage is 750 ft (229 m), from topographic map.
REMARKS.—Records fair except those for periods of beaverdams, July 1 to September 30, which are poor.
AVERAGE DISCHARGE.—21 years, 67.0 ft^3/s (1.90 m^3/s), 25.00 in/yr (635 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 9,670 ft^3/s (274 m^3/s) Mar. 4, 1966, gage height, 11.33 ft (3.453 m), from rating curve extended above 3,000 ft^3/s (85.0 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 3.1 ft^3/s (0.088 m^3/s) Aug. 29, 1939.
EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 29, 1931, reached a stage of 12.1 ft (3.69 m), from floodmarks; discharge, 12,400 ft^3/s (351 m^3/s), as explained above.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 1,100 ft^3/s (31.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 10	2000	*2640	74.8	8.28	3.524	Mar. 30	1015	1850	52.4	7.75	2.362

Minimum daily discharge, 5.8 ft^3/s (0.16 m^3/s) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	11	24	14	16	37	260	17	111	14	9.2	16
2	18	10	23	14	165	34	194	17	52	14	8.6	14
3	14	11	21	13	75	31	132	16	35	14	8.4	14
4	13	12	19	13	50	33	90	16	107	14	8.2	13
5	12	11	19	13	40	70	291	16	113	13	8.0	12
6	11	12	18	13	34	64	173	15	76	13	8.0	11
7	11	11	17	14	31	51	111	15	136	13	8.5	10
8	11	11	16	13	28	43	82	15	132	13	13	9.5
9	11	12	18	13	25	38	73	15	76	12	10	9.0
10	11	12	29	13	898	35	62	16	54	12	8.5	8.6
11	11	12	26	13	535	32	53	18	44	12	9.0	8.2
12	10	12	23	13	183	29	47	16	38	12	11	7.8
13	10	12	22	13	121	27	42	15	34	12	9.0	7.6
14	10	12	20	13	89	25	38	15	30	11	8.5	7.4
15	9.9	40	19	13	71	24	34	15	27	11	8.0	7.2
16	9.9	34	19	13	60	24	31	15	25	11	7.7	7.2
17	9.9	23	18	13	98	23	30	15	23	11	7.7	7.0
18	11	20	17	13	184	26	28	16	21	12	7.6	6.9
19	13	18	16	13	423	26	26	20	20	14	11	6.9
20	11	16	16	14	218	23	25	17	20	12	10	6.8
21	11	15	15	19	143	21	24	15	20	11	9.5	6.6
22	10	15	15	20	104	26	22	15	18	11	9.0	6.5
23	10	20	15	19	86	36	24	14	17	10	8.5	6.4
24	11	56	15	17	65	35	25	14	16	25	8.2	6.3
25	11	41	15	17	53	31	22	13	18	18	8.0	6.2
26	11	31	15	16	48	28	20	15	17	15	7.8	6.1
27	11	35	15	17	43	26	19	16	16	13	7.6	6.0
28	16	34	14	16	39	24	18	15	15	12	7.5	5.9
29	13	30	14	15	---	23	19	14	14	11	26	5.8
30	12	26	14	15	---	887	18	13	16	10	17	5.8
31	12	---	14	15	---	233	---	16	---	9.6	22	---
TOTAL	373.7	615	561	450	3925	2065	2033	480	1341	395.6	311.0	251.7
MEAN	12.1	20.5	18.1	14.5	140	66.6	67.8	15.5	44.7	12.8	10.0	8.39
MAX	28	56	29	20	898	887	291	20	136	25	26	16
MIN	9.9	10	14	13	16	21	18	13	14	9.6	7.5	5.8
CFSM	.33	.56	.50	.40	3.85	1.83	1.86	.43	1.23	.35	.28	.23
IN.	.38	.63	.57	.46	4.01	2.11	2.08	.49	1.37	.40	.32	.26

CAL YR 1980 TOTAL 28625.0 MEAN 78.2 MAX 1860 MIN 7.8 CFSM 2.15 IN 29.25
WTR YR 1981 TOTAL 12802.0 MEAN 35.1 MAX 898 MIN 5.8 CFSM .96 IN 13.08

02388000 WEST ARMUCHEE CREEK NEAR SUBLIGNA, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—November 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
15...	1305	9.9	14.0	6	.16
NOV					
24...	1655	60	11.5	20	3.2
FEB					
18...	1610	184	12.0	27	13
MAY					
12...	1230	16	15.0	9	.39
JUN					
23...	1900	17	--	10	.46
AUG					
04...	1405	8.2	--	8	.18
SEP					
15...	1240	7.2	20.5	13	.25

02388300 HEATH CREEK NEAR ROME, GA.

LOCATION.--Lat 34°21'57", long 85°16'17", Floyd County, Hydrologic Unit 03150103, on upstream left wingwall of bridge on county road, 4 mi (6.4 km) upstream from Little Armuchee Creek, and 9.5 mi (15.3 km) northwest of Rome.
DRAINAGE AREA.--14.7 mi^2 (38.1 km^2).
PERIOD OF RECORD.--May 1968 to current year.
REVISED RECORDS.--WRD GA-80-1: Drainage area.
GAGE.--Water-stage recorder. Altitude of gage is 650 ft (198 m), from topographic map.
REMARKS.--Records fair except those for periods of no gage-height record, Oct. 1-14 and Mar. 30 to May 13, which are poor.
AVERAGE DISCHARGE.--13 years, 26.9 ft^3/s (0.76 m^3/s), 24.85 in/yr (631 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.03 ft (3.057 m) Mar. 4, 1979 (discharge not determined); minimum daily discharge, 1.2 ft^3/s (0.034 m^3/s) Aug. 31 to Sept. 6, 1977, Oct. 5-7, 11, 13-21, 1978.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft^3/s (11.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 10	1900	*426	12.1	5.85	1.783
Mar. 30	1100	423	12.0	5.83	1.777

Minimum daily discharge, 2.0 ft^3/s (0.057 m^3/s) Oct. 15-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	5.1	11	4.2	5.7	10	100	3.8	28	2.6	3.0	8.9
2	6.0	5.2	10	3.8	108	9.4	50	3.6	19	4.8	3.0	7.1
3	4.2	4.3	9.8	3.6	45	8.1	30	3.3	13	3.7	2.9	6.3
4	3.3	4.6	9.1	612	29	10	20	3.3	21	3.0	2.8	5.9
5	2.8	4.4	8.6	562	22	23	120	3.3	14	3.0	2.8	5.7
6	2.5	4.3	8.0	286	18	16	50	3.3	11	3.2	2.6	5.5
7	2.4	4.3	7.5	52	16	14	25	3.2	10	2.8	2.6	8.5
8	2.3	4.5	7.7	40	15	12	15	3.2	11	2.7	2.8	5.2
9	2.2	4.6	8.9	29	12	10	12	3.2	8.5	2.6	2.7	4.2
10	2.2	5.0	12	22	162	9.4	9.0	3.1	7.5	2.5	2.6	3.6
11	2.2	4.4	10	17	283	8.8	7.3	3.6	5.9	2.5	2.6	3.2
12	2.1	4.0	9.3	15	82	8.1	6.2	3.3	5.2	2.4	2.7	3.2
13	2.1	4.0	10	15	48	14	5.4	3.8	4.5	2.5	2.6	3.0
14	2.1	4.5	8.6	13	33	14	4.7	7.5	4.3	2.5	2.5	2.9
15	2.0	8.2	8.3	11	25	7.3	4.4	3.6	4.5	2.5	2.4	2.9
16	2.0	7.8	8.0	11	20	7.8	4.2	3.8	3.6	2.8	2.4	3.1
17	2.0	6.3	8.4	9.7	52	7.2	4.1	3.6	3.4	24	2.5	2.8
18	3.0	6.6	7.2	9.0	120	9.5	4.0	4.3	3.1	14	6.0	2.7
19	4.7	5.7	6.6	12	109	8.3	4.8	7.3	3.0	3.8	3.8	2.6
20	2.8	5.3	6.4	15	71	6.7	9.0	6.6	2.9	3.5	3.4	2.6
21	2.4	6.1	5.4	155	45	5.8	6.0	6.8	2.8	3.1	24	2.7
22	2.3	6.9	4.7	89	34	8.5	4.1	5.9	2.9	2.9	4.5	2.6
23	2.3	9.9	4.8	156	29	19	11	4.3	2.7	2.9	3.5	2.6
24	2.2	16	4.9	99	20	17	8.0	3.1	2.6	2.9	3.3	2.4
25	3.2	13	5.2	64	16	16	5.5	2.9	2.6	5.0	3.1	2.5
26	2.9	11	4.6	51	14	14	4.4	8.5	11	3.1	2.9	2.6
27	2.8	17	4.4	3.9	12	11	3.7	14	2.9	2.9	2.8	2.3
28	16	16	4.3	3.9	10	9.5	4.0	7.1	2.8	2.9	2.7	2.5
29	7.3	14	4.2	3.4	---	8.6	5.5	3.9	2.7	4.2	2.7	2.4
30	6.1	12	4.2	3.4	---	282	4.3	3.6	2.6	4.5	65	2.3
31	5.2	---	4.3	3.3	---	200	---	12	---	3.0	13	---
TOTAL	115.6	225.0	226.4	2374.2	1455.7	805.0	541.6	152.8	219.0	128.8	186.2	114.8
MEAN	3.73	7.50	7.30	76.6	52.0	26.0	18.1	4.93	7.30	4.15	6.01	3.83
MAX	16	17	12	612	283	282	120	14	28	24	65	8.9
MIN	2.0	4.0	4.2	3.3	5.7	5.8	3.7	2.9	2.6	2.4	2.4	2.3
CFSM	.25	.51	.50	5.21	3.54	1.77	1.23	.34	.50	.28	.41	.26
IN.	.29	.57	.57	6.01	3.68	2.04	1.37	.39	.55	.33	.47	.29

CAL YR 1980 TOTAL 13383.8 MEAN 36.6 MAX 731 MIN 1.6 CFSM 2.49 IN 33.87
WTR YR 1981 TOTAL 6545.1 MEAN 17.9 MAX 612 MIN 2.0 CFSM 1.22 IN 16.56

02388500 OOSTANAULA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°18'02", long 85°08'30", Floyd County, Hydrologic Unit 03150103, on left bank 1.2 mi (1.9 km) upstream from Dry Creek, 4.5 mi (7.2 km) north of Rome, 4.5 mi (7.2 km) upstream from confluence with Etowah River, and 6.5 mi (10.5 km) downstream from Armuchee Creek.

DRAINAGE AREA.--2,120 mi^2 (5,490 km^2).

PERIOD OF RECORD.--October 1939 to current year, in reports of the U.S. Geological Survey. Gage-height records collected at site 4.2 mi (6.8 km) downstream since 1890 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft (171.206 m), National Geodetic Vertical Datum of 1929. Oct. 1, 1939, to Dec. 7, 1950, water-stage recorder at site 3.2 mi (5.1 km) downstream at same datum. Since Oct. 1, 1939, auxiliary water-stage recorder at Fifth Avenue Bridge, 4.2 mi (6.8 km) downstream. Nonrecording gage at site of auxiliary gage used as base gage for records published as Coosa River at Rome, Jan. 1, 1897, to Dec. 31, 1903.

REMARKS.--Records good. Flow regulated by Carters Lake and re-regulation dam since 1975. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74, are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--42 years, 3,635 ft^3/s (103 m^3/s), 23.28 in/yr (591 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,000 ft^3/s (1,330 m^3/s) Jan. 23, 1947; maximum gage height, 35.13 ft (10.708 m) Jan. 22, 1947; minimum daily discharge, 408 ft^3/s (11.6 m^3/s) Oct. 25, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 40.3 ft (12.28 m) in April 1886, at site of present auxiliary gage, from information by Georgia Department of Archives.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,500 ft^3/s (439 m^3/s) Feb. 11; maximum gage height, 21.22 ft (6.468 m) Feb. 11 (backwater from Etowah River); minimum daily discharge, 590 ft^3/s (16.7 m^3/s) Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3900	1310	2030	1060	902	2680	14600	1610	2160	889	644	867
2	3350	959	1710	836	2780	2490	12900	1440	5000	996	620	954
3	1660	846	1440	816	4970	2420	7700	1280	5000	1120	607	1000
4	1020	873	1210	704	5140	2760	5200	1160	5290	885	680	1150
5	811	821	1110	726	3150	3650	6150	1100	7990	840	702	1580
6	719	1050	1050	976	2010	4350	7730	1320	8850	811	680	1210
7	645	1000	972	1480	1690	4520	7960	1430	7300	878	713	1050
8	1010	916	926	1610	1490	3600	6370	1420	7120	1520	783	1110
9	996	946	999	865	1510	2680	5100	1420	7980	1620	895	1390
10	680	711	1430	838	4100	2670	4360	1440	7380	875	919	1130
11	639	717	1660	758	13200	2130	3790	1480	3910	727	849	893
12	590	711	1920	658	14500	1840	3440	1840	3060	692	757	990
13	841	700	1680	863	12700	1730	3180	2010	2830	773	853	993
14	720	740	1280	802	10100	1700	2840	1340	1860	864	782	680
15	684	901	1090	703	5100	1620	2320	1200	1710	845	791	873
16	651	1320	1300	651	3750	1640	2250	1190	1530	878	648	927
17	614	2620	1300	771	3460	2070	2140	1310	1560	993	601	912
18	742	2130	1200	700	7480	2010	2230	1470	1410	1220	664	1040
19	1410	1440	1170	677	11600	1710	2300	1690	1330	917	932	992
20	1050	1080	940	668	13200	1760	2290	1570	1320	815	946	814
21	1820	1020	865	827	12300	1520	2290	2450	1260	819	1060	625
22	991	994	790	873	10500	1400	2070	2280	1260	761	1220	623
23	881	1250	936	925	6020	1660	1670	1580	1340	666	1380	627
24	713	2150	1000	946	4500	1710	1640	1090	1240	652	1070	615
25	701	2910	904	900	4110	1740	2100	989	1210	810	781	700
26	668	3280	1110	834	3370	1620	2640	965	1170	650	782	739
27	664	2690	1150	798	3440	1490	1830	1400	1080	687	683	723
28	1480	2070	945	806	2920	1380	1620	3040	951	784	646	719
29	1660	1900	773	909	---	1310	2180	4070	884	723	633	1230
30	1700	1830	884	959	---	7600	2130	3900	823	798	795	1250
31	2200	---	1200	954	---	14800	---	2610	---	668	803	---
TOTAL	37010	41885	36974	26893	169992	86260	125020	53094	95728	27176	24919	28406
MEAN	1194	1396	1193	868	6071	2783	4167	1713	3191	877	804	947
MAX	3900	3280	2030	1610	14500	14800	14600	4070	8850	1620	1380	1580
MIN	590	700	773	651	902	1310	1620	965	823	650	601	615

CAL YR 1980 TOTAL 1616983 MEAN 4418 MAX 27600 MIN 556 MEAN† 4426 CFSM† 2.09 IN† 28.41
WTR YR 1981 TOTAL 753357 MEAN 2064 MAX 14800 MIN 590 MEAN† 2054 CFSM† 0.97 IN† 13.18

† ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02388520 OOSTANAULA RIVER AT ROME, GA.

LOCATION.—Lat 34°16'13", long 85°10'24", Floyd County, Hydrologic Unit 03150103, at Southern Railway bridge at pumping station at city of Rome water works, 1.2 mi (1.9 km) upstream from confluence with Etowah River.

DRAINAGE AREA.—2,150 mi^2 (5,570 km^2), approximately.

PERIOD OF RECORD.—August 1974 to current year.

REMARKS.—Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Discharge obtained from gaging station 02388500, Oostanaula River near Rome, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT							
28...	1630	1820	7.4	7.7	18.5	14.0	8.0
NOV							
25...	1200	2900	7.8	7.4	10.5	11.5	9.3
DEC							
09...	0800	680	7.4	7.5	16.5	10.0	11.6
JAN							
29...	0930	900	7.8	7.7	11.0	7.0	9.8
FEB							
26...	0900	3140	7.4	7.3	9.5	10.0	8.4
MAR							
25...	0930	1810	7.7	7.6	10.5	10.0	9.4
APR							
29...	0830	2220	7.5	7.4	23.5	20.0	6.8
MAY							
27...	0840	1000	7.2	7.5	23.0	21.0	4.4
JUN							
24...	0730	1200	7.4	7.5	24.0	25.5	6.0
JUL							
28...	1400	889	7.2	7.4	38.0	28.5	5.6
AUG							
26...	1345	970	7.6	7.6	34.5	25.5	5.8
SEP							
30...	0800	1190	7.4	7.4	14.5	21.0	6.2

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, CONFIRMED (MPN)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)
OCT							
28...	157	18	12	1.2	93000	9300	60
NOV							
25...	121	23	16	2.2	21000	3900	45
DEC							
09...	158	6	8	.9	--	230	62
JAN							
29...	166	10	12	1.1	--	230	64
FEB							
26...	105	16	7	.9	930	230	46
MAR							
25...	146	12	6	1.6	23000	2300	64
APR							
29...	148	18	12	.1	2300	230	60
MAY							
27...	150	10	109	1.1	--	930	56
JUN							
24...	133	10	9	.4	15000	2300	54
JUL							
28...	161	14	--	1.0	4300	430	60
AUG							
26...	144	16	--	1.0	23000	230	76
SEP							
30...	142	12	--	.8	1500	430	56

02388520 OOSTANAULA RIVER AT ROME, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
28...	56	24	.23	.040	.10	.220	4.5
NOV							
25...	43	65	.28	.040	.40	.180	5.0
DEC							
09...	58	5	.28	.040	.30	.220	4.0
JAN							
29...	64	7	.23	.030	.30	.280	1.5
FEB							
26...	38	26	.43	.040	.20	.120	1.5
MAR							
25...	58	16	.28	.040	.42	.120	1.3
APR							
29...	49	41	.38	.040	.40	.230	4.0
MAY							
27...	58	15	.43	.060	.50	.200	1.0
JUN							
24...	47	17	.40	.060	.20	.210	1.0
JUL							
28...	51	25	.34	<.020	--	.360	4.5
AUG							
26...	58	19	.44	.060	--	.220	2.0
SEP							
30...	42	5	.26	.020	--	.460	<1.0

02388530 OOSTANAULA RIVER AT 5TH AVENUE, AT ROME, GA.

LOCATION.—Lat 34°15'24", long 85°10'18", Floyd County, Hydrologic Unit 03150103, at Fifth Avenue Bridge at Rome, and 0.3 mi (0.5 km) upstream from confluence with Etowah River.

DRAINAGE AREA.—2,150 mi^2 (5,570 km^2), approximately.

PERIOD OF RECORD.—October 1939 to current year. October 1971 to current year in reports of U.S. Geological Survey. Gage-height records since 1890 are contained in reports of National Weather Service.

GAGE.—Water-stage recorder. Datum of gage is 561.70 ft (171.206 m) National Geodetic Vertical Datum of 1929.

REMARKS.—Flow regulated by Carters Lake and re-regulation dam since 1975. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400).

EXTREMES FOR PERIOD OF RECORD.—Since October 1939, maximum gage height, 34.5 ft (10.52 m) Jan. 22, 1947. From 1890 to September 1939, maximum gage height, 37.2 ft (11.34 m) Jan. 15, 1892.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum gage height since at least 1834, 40.3 ft (12.28 m) in April 1886, from information by Georgia Department of Archives.

EXTREMES FOR CURRENT YEAR.—Maximum gage height, 17.74 ft (5.407 m) Feb. 11.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.29	4.93	4.89	4.44	3.56	5.64	15.13	6.42	6.98	4.24	4.02	5.35
2	7.02	3.76	5.75	3.72	5.68	5.58	13.78	4.56	9.59	4.58	3.24	5.69
3	5.50	3.69	6.00	4.17	7.67	5.85	10.20	4.10	9.48	4.58	3.23	5.41
4	4.77	5.17	6.07	3.33	7.93	6.29	7.91	3.98	9.57	4.35	3.95	5.21
5	3.67	4.63	5.66	3.71	6.23	7.32	8.93	4.35	11.34	3.66	3.61	5.72
6	3.53	4.81	4.52	5.98	5.20	8.03	10.32	4.54	11.98	3.65	4.02	4.27
7	3.42	4.80	4.21	5.10	4.80	7.70	10.36	4.67	9.39	4.57	4.04	3.92
8	4.56	4.58	3.75	5.61	4.31	6.42	9.05	4.65	9.31	5.74	4.14	3.98
9	3.80	3.68	5.06	4.86	4.35	5.76	7.90	4.64	10.09	5.72	3.51	5.24
10	4.27	3.50	5.48	4.14	7.33	6.30	7.19	4.24	10.09	4.89	3.54	5.05
11	4.14	4.43	5.85	3.35	16.04	5.93	6.61	4.28	7.98	4.26	4.33	4.77
12	3.29	4.42	6.36	3.55	16.45	5.64	6.18	4.94	7.26	3.50	4.22	4.81
13	3.46	4.42	5.76	5.61	13.75	5.55	6.04	5.10	6.40	3.66	4.79	3.77
14	4.29	4.44	4.10	4.08	11.80	5.35	6.01	4.54	4.82	5.36	4.16	3.41
15	4.15	4.61	4.02	3.33	7.90	4.60	5.55	4.48	4.62	4.80	4.76	5.33
16	4.63	4.02	5.37	4.05	6.71	4.59	5.47	4.42	5.70	4.84	3.38	4.54
17	4.00	5.38	5.42	4.64	7.09	5.06	5.36	4.11	5.71	4.98	3.18	4.51
18	4.35	6.92	5.33	3.31	11.29	5.38	5.32	4.27	5.57	5.26	3.96	4.57
19	4.75	5.22	5.32	3.25	14.27	5.19	5.11	5.98	5.48	3.73	4.32	4.53
20	4.95	4.88	4.91	3.78	14.10	5.19	5.26	5.00	5.48	3.58	4.42	3.53
21	5.45	4.79	3.58	4.83	13.89	4.81	5.50	5.27	4.06	4.35	4.99	3.31
22	4.66	4.67	3.70	4.10	12.35	4.37	5.35	5.38	4.08	4.23	4.99	4.07
23	4.52	4.16	5.81	4.12	8.94	4.66	5.02	4.78	5.60	4.15	4.17	4.10
24	3.86	5.10	5.67	3.86	8.26	4.89	4.98	3.86	5.34	4.10	3.83	4.07
25	3.73	6.94	3.64	3.55	8.69	4.89	5.19	3.74	5.32	4.27	4.19	4.12
26	3.34	7.33	3.81	3.45	8.02	4.78	5.40	4.27	5.43	3.28	4.75	4.13
27	3.42	7.79	4.30	3.66	8.05	4.60	4.86	9.34	5.28	3.28	4.06	3.30
28	5.17	5.27	3.65	3.96	7.30	4.27	4.83	12.53	3.76	4.15	3.98	3.31
29	5.33	6.31	3.63	3.81	---	4.19	5.28	9.65	3.67	4.15	3.96	5.49
30	5.13	4.68	4.44	4.08	---	10.03	5.44	9.12	4.21	4.23	4.61	4.71
31	5.74	---	4.76	4.12	---	16.57	---	7.16	---	4.05	4.96	---
MEAN	4.52	4.98	4.87	4.11	9.00	5.98	6.98	5.43	6.79	4.33	4.11	4.47
MAX	7.29	7.79	6.36	5.98	16.45	16.57	15.13	12.53	11.98	5.74	4.99	5.72
MIN	3.29	3.50	3.58	3.25	3.56	4.19	4.83	3.74	3.67	3.28	3.18	3.30

WTR YR 1981 MEAN 5.43 MAX 16.57 MIN 3.18

02389000 ETOWAH RIVER NEAR DAWSONVILLE, GA.

LOCATION.--Lat 34°22'57", long 84°03'21", Dawson County, Hydrologic Unit 03150104, on left bank 0.4 mi (0.6 km) upstream from Palmer Creek, 0.5 mi (0.8 km) upstream from bridge on State Highway 53, 1.2 mi (1.9 km) downstream from Russell Creek, 4 mi (6.4 km) southeast of Dawsonville, and 7.5 mi (12.1 km) upstream from Shoal Creek.

DRAINAGE AREA.--107 mi^2 (277 km^2), revised.

PERIOD OF RECORD.--November 1970 to current year. Water-discharge records for the period April 1940 to Sept. 1976 are in reports published by the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT								
23...	0700	131	23	20	6.9	6.8	12.5	9.2
AUG								
19...	0730	88	20	23	--	7.3	20.5	7.8

DATE	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (NTU)	HARDNESS (MG/L AS CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
OCT										
23...	5	.70	6	.00	1.2	.7	1.4	.8	11	.1
AUG										
19...	5	4.5	5	.00	1.2	.6	1.5	.8	7.0	.6

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)
OCT										
23...	.9	.0	11	23	8.1	.03	.010	.06	.07	.00
AUG										
19...	1.5	<.1	9.4	16	3.8	.11	.020	.10	.12	.01

DATE	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)
OCT										
23...	.10	.10	.010	.010	20	0	0	5	0	0
AUG										
19...	.11	.23	<.010	<.010	20	0	1	1	10	2

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
23...	170	1	0	20	<.1	<.1	0	10	1.7
AUG									
19...	40	8	<1	10	.1	<.1	<1	10	1.4

02392000 ETOWAH RIVER AT CANTON, GA.

LOCATION.—Lat 34°14'23", long 84°29'47", Cherokee County, Hydrologic Unit 03150104, on left bank 100 ft (30 m) downstream from bridge on State Highway 5 spur and 140 at Canton, 0.8 mi (1.3 km) upstream from Canton Creek, and 1.8 mi (2.9 km) downstream from Hickory Log Creek.

DRAINAGE AREA.—613 mi^2 (1,590 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—March 1892 to December 1905 (prior to 1896, gage heights only), October 1936 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage heights collected at same site since 1892 are contained in reports of National Weather Service.

REVISED RECORDS.—WSP 1906: 1946(M). WRD GA-80-1: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 844.55 ft (257.419 m) National Geodetic Vertical Datum of 1929. March 1892 to December 1905, nonrecording gage at site 100 ft (30 m) upstream at datum 2.0 ft (0.61 m) higher. Mar. 16, 1937, to Jan. 17, 1939, nonrecording gage at site 100 ft (30 m) upstream at present datum. Water-stage recorder at Allatoona Reservoir is used as an auxiliary gage for this station.

REMARKS.—Records good.

AVERAGE DISCHARGE.—54 years (1896-1905, 1936-81), 1,247 ft^3/s (35.3 m^3/s), 27.63 in/yr (702 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 32,300 ft^3/s (915 m^3/s) Jan. 7, 1946, gage height, 26.7 ft (8.14 m); minimum, 178 ft^3/s (5.04 m^3/s) Sept. 29, 30, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum discharge known, 36,700 ft^3/s (1,040 m^3/s) in January 1892, gage height, 25.0 ft (7.62 m), present datum, from National Weather Service.

Maximum stage known since at least 1892, that of Jan. 7, 1946.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 5,500 ft^3/s (156 m^3/s) Feb. 11, gage height, 10.95 ft (3.338 m), no peaks above base of 6,500 ft^3/s (184 m^3/s); minimum discharge, 204 ft^3/s (5.78 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1690	731	674	488	445	849	1530	620	1040	412	274	258
2	1020	667	646	482	756	844	1310	578	1510	499	320	258
3	781	632	627	474	937	786	1090	562	1690	548	393	280
4	662	611	603	471	686	776	990	546	1970	518	341	301
5	604	609	588	465	606	1090	1120	554	2680	502	330	444
6	572	589	580	459	566	1100	1370	545	1780	593	372	399
7	545	577	574	508	542	932	1140	553	1400	565	588	301
8	527	569	565	539	528	840	1020	581	1350	587	641	853
9	512	570	560	499	525	790	965	538	1200	472	417	518
10	501	556	601	481	883	765	940	521	1020	422	368	364
11	488	544	655	470	4570	743	897	546	923	395	377	302
12	472	532	595	460	2810	714	855	557	849	391	390	278
13	459	526	571	450	1560	699	822	524	833	386	373	263
14	455	524	558	445	1180	700	800	528	891	363	328	251
15	457	576	546	435	990	670	771	513	786	343	303	249
16	461	842	550	430	879	664	740	534	706	327	285	400
17	461	758	551	425	890	657	726	497	678	323	279	493
18	687	663	533	420	2190	685	791	489	643	499	318	330
19	1820	652	524	425	4460	828	780	569	600	408	298	277
20	1120	609	517	444	3100	738	748	707	582	391	273	261
21	774	585	508	523	1970	677	740	619	582	380	307	254
22	653	570	497	556	1510	668	725	546	574	336	342	247
23	602	570	498	505	1350	680	704	490	531	305	304	242
24	573	718	526	472	1180	679	774	457	502	277	275	237
25	615	937	596	454	1050	650	764	437	482	268	266	230
26	683	763	569	443	968	629	686	449	476	264	247	226
27	626	753	520	444	912	614	650	2500	459	258	231	224
28	814	899	515	452	868	605	629	2540	431	242	225	222
29	1020	811	510	436	---	599	610	1450	419	240	222	214
30	829	727	505	427	---	1830	651	1010	417	254	233	205
31	794	---	499	431	---	2550	---	844	---	263	242	---
TOTAL	22277	19670	17361	14413	38911	26051	26338	22404	28004	12031	10162	9381
MEAN	719	656	560	465	1390	840	878	723	933	388	328	313
MAX	1820	937	674	556	4570	2550	1530	2540	2680	593	641	853
MIN	455	524	497	420	445	599	610	437	417	240	222	205
CFSM	1.17	1.07	.91	.76	2.27	1.37	1.43	1.18	1.52	.63	.54	.51
IN.	1.35	1.19	1.05	.87	2.36	1.58	1.60	1.36	1.70	.73	.62	.57

CAL YR 1980 TOTAL 566739 MEAN 1548 MAX 13000 MIN 335 CFSM 2.53 IN 34.39
WTR YR 1981 TOTAL 247003 MEAN 677 MAX 4570 MIN 205 CFSM 1.10 IN 14.99

02392000 ETOWAH RIVER AT CANTON, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.44	2.52	2.41	2.04	1.95	2.76	4.12	2.26	3.10	1.81	1.50	1.47
2	3.09	2.39	2.35	2.02	2.57	2.76	3.67	2.18	4.05	1.99	1.62	1.47
3	2.62	2.32	2.31	2.01	2.93	2.65	3.25	2.14	4.39	2.09	1.77	1.53
4	2.38	2.28	2.27	2.00	2.43	2.61	3.02	2.11	4.96	2.03	1.66	1.58
5	2.27	2.28	2.24	1.97	2.27	3.24	3.27	2.12	6.37	1.99	1.64	1.88
6	2.20	2.24	2.22	1.98	2.19	3.25	3.77	2.11	4.58	2.18	1.72	1.79
7	2.15	2.21	2.21	2.08	2.14	2.92	3.30	2.13	3.80	2.12	2.16	1.58
8	2.11	2.20	2.19	2.14	2.12	2.74	3.06	2.18	3.70	2.15	2.26	2.70
9	2.08	2.20	2.18	2.06	2.11	2.64	2.95	2.10	3.39	1.92	1.81	2.03
10	2.06	2.17	2.26	2.02	2.83	2.59	2.90	2.06	3.04	1.82	1.72	1.72
11	2.04	2.15	2.37	1.96	9.70	2.55	2.81	2.11	2.85	1.77	1.73	1.58
12	2.00	2.12	2.25	2.35	6.65	2.49	2.73	2.14	2.70	1.76	1.76	1.52
13	1.98	2.11	2.20	3.04	4.18	2.46	2.66	2.07	2.67	1.75	1.73	1.49
14	1.97	2.11	2.18	3.02	3.43	2.46	2.62	2.08	2.78	1.71	1.64	1.46
15	1.97	2.21	2.15	2.35	3.04	2.40	2.56	2.05	2.56	1.67	1.58	1.46
16	1.98	2.74	2.16	1.98	2.82	2.39	2.50	2.09	2.40	1.64	1.53	1.79
17	1.98	2.58	2.16	1.91	2.83	2.38	2.47	2.01	2.35	1.63	1.52	1.98
18	2.43	2.39	2.13	1.91	5.43	2.43	2.60	2.00	2.27	1.98	1.61	1.65
19	4.71	2.36	2.11	1.93	9.62	2.72	2.58	2.16	2.19	1.80	1.56	1.52
20	3.31	2.27	2.09	1.95	7.24	2.54	2.52	2.43	2.15	1.76	1.51	1.49
21	2.61	2.23	2.08	2.11	5.01	2.41	2.50	2.26	2.15	1.74	1.60	1.47
22	2.37	2.20	2.05	2.17	4.09	2.40	2.47	2.11	2.14	1.65	1.67	1.45
23	2.26	2.20	2.06	2.07	3.76	2.42	2.43	2.00	2.05	1.58	1.59	1.44
24	2.21	2.50	2.11	2.00	3.43	2.41	2.57	1.93	1.99	1.51	1.52	1.42
25	2.29	2.93	2.25	1.97	3.16	2.36	2.55	1.89	1.95	1.49	1.50	1.40
26	2.43	2.59	2.20	1.95	3.00	2.32	2.39	1.92	1.94	1.48	1.45	1.38
27	2.31	2.57	2.10	1.95	2.88	2.29	2.32	6.02	1.91	1.46	1.40	1.38
28	2.69	2.86	2.09	1.96	2.80	2.27	2.28	6.11	1.85	1.42	1.38	1.37
29	3.10	2.68	2.08	1.93	---	2.26	2.24	3.91	1.83	1.42	1.37	1.34
30	2.72	2.51	2.07	1.91	---	4.73	2.32	3.04	1.82	1.45	1.41	1.31
31	2.65	---	2.06	1.92	---	6.16	---	2.71	---	1.48	1.44	---
MEAN	2.50	2.37	2.18	2.09	3.81	2.74	2.78	2.47	2.86	1.75	1.62	1.59
MAX	4.71	2.93	2.41	3.04	9.70	6.16	4.12	6.11	6.37	2.18	2.26	2.70
MIN	1.97	2.11	2.05	1.91	1.95	2.26	2.24	1.89	1.82	1.42	1.37	1.31

WTR YR 1981 MEAN 2.38 MAX 9.70 MIN 1.31

02392000 ETOWAH RIVER AT CANTON, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—March 1968 to current year.

PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: June 1971 to September 1976.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum, 26.0°C July 24, 1972; minimum recorded, 2.5°C Dec. 26, 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
29...	1415	1000	7.4	7.2	11.0	13.0	10.0
NOV							
26...	1130	770	--	7.1	7.5	8.0	10.8
JAN							
27...	1000	440	7.0	7.2	10.5	5.0	11.8
APR							
28...	0845	640	7.1	7.1	18.5	18.0	8.2
JUL							
27...	0930	260	7.0	6.9	34.0	26.5	7.7

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
29...	36	14	1.2	930	15	.10	.030	.040	1.5
NOV									
26...	34	9	.6	840	13	.26	<.020	.020	1.0
JAN									
27...	37	5	.3	<35	18	.16	.020	<.020	<1.0
APR									
28...	36	7	.6	46	14	.16	.020	.020	<1.0
JUL									
27...	35	7	.7	150	12	.13	.020	.030	<1.0

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.

LOCATION.—Lat 34°09'47", long 84°44'28", Bartow County, Hydrologic Unit 03150104, on right bank 0.8 mi (1.3 km) downstream from Allatoona Dam, 2 mi (3.2 km) upstream from Nashville, Chattanooga, & St. Louis Railway bridge, and 3 mi (4.8 km) east of Cartersville.

DRAINAGE AREA.—1,120 mi^2 (2,900 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—September 1938 to current year. Prior to October 1949, published as Etowah River above Cartersville.

REVISED RECORDS.—WSP 1032: 1944. WRD GA-80-1: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 686.92 ft (209.373 m), National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Dec. 19, 1938, nonrecording gage at same site and datum.

REMARKS.—Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.—43 years, 1,912 ft^3/s (54.2 m^3/s), 23.18 in/yr (589 mm/yr), adjusted for storage since 1950.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 40,400 ft^3/s (1,140 m^3/s) Jan. 8, 1946, gage height, 20.8 ft (6.34 m), from rating curve extended above 26,000 ft^3/s (736 m^3/s); minimum daily, 152 ft^3/s (4.30 m^3/s) Oct. 15, 1966.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 8,950 ft^3/s (253 m^3/s) Sept. 28, gage height, 7.28 ft (2.219 m); minimum daily, 268 ft^3/s (7.59 m^3/s) Mar. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1450	336	1930	367	360	351	276	881	2590	1130	322	1890
2	1450	339	2560	1550	978	992	279	304	2630	1140	322	1900
3	1450	2540	3310	360	1180	1650	282	301	2620	1150	1390	1620
4	292	1680	2910	360	952	1640	284	875	2630	313	532	2130
5	297	1680	1410	4280	948	1610	290	879	3120	313	1410	327
6	293	1680	972	1890	962	1640	578	872	286	1640	1380	328
7	1480	1660	362	1970	360	342	570	868	290	2520	1380	338
8	272	342	2150	2180	360	342	577	876	887	2100	304	1990
9	1390	346	2200	1310	953	1610	574	294	1810	2040	304	1990
10	1380	1680	2230	370	981	1620	585	295	2590	1390	1390	1980
11	279	1690	2910	360	370	1610	312	860	2590	322	1390	1990
12	272	1700	2380	3400	1220	1610	317	852	1610	322	2250	343
13	1360	1710	370	1660	929	1600	898	852	295	3300	1370	343
14	1370	1730	360	370	351	332	915	852	290	2080	2300	2990
15	2070	356	2290	1170	351	332	908	850	2220	2110	304	1460
16	1400	360	2290	2250	1680	332	899	294	2220	2080	294	1470
17	1430	3570	2280	370	1690	980	893	294	2230	2090	1370	1450
18	327	1730	2250	370	1690	975	315	2520	2220	332	1390	1450
19	328	1730	2250	1070	360	1000	316	841	2230	322	1370	343
20	1480	1710	370	2150	1670	946	917	298	295	1530	1380	344
21	1490	1710	367	1070	1660	322	903	837	293	1520	1400	1450
22	1470	610	3590	1060	351	332	913	849	2260	1530	294	1490
23	907	360	3570	689	1620	590	888	291	2250	1530	294	1490
24	906	2520	373	370	3070	578	922	286	2250	1540	1380	1450
25	332	2500	363	350	3070	574	312	856	2260	332	2360	1390
26	338	4550	998	698	3080	575	314	923	2290	332	1340	343
27	1490	370	364	1120	3070	268	858	2710	304	1390	1330	344
28	1510	3040	367	690	351	284	877	2990	304	1390	1340	3080
29	1030	370	1540	1150	---	276	873	4190	1100	1400	308	1400
30	1520	361	1550	1140	---	610	3470	2230	1110	1400	303	1400
31	1500	---	1560	360	---	567	---	315	---	1390	2130	---
TOTAL	32563	44960	52426	36504	34617	26490	21315	31435	50074	41978	34631	40513
MEAN	1050	1499	1691	1178	1236	855	711	1014	1669	1354	1117	1350
MAX	2070	4550	3590	4280	3080	1650	3470	4190	3120	3300	2360	3080
MIN	272	336	360	350	351	268	276	286	286	313	294	327
MEAN†	1035	963	832	755	2777	1519	1358	1523	1319	503	611	488
CFSM†	.92	.86	.74	.67	2.48	1.36	1.21	1.36	1.18	.45	.55	.44
IN†	1.07	.96	.86	.78	2.58	1.56	1.35	1.56	1.31	.52	.63	.49

CAL YR 1980 TOTAL 922410 MEAN 2520 MAX 7980 MIN 272 MEAN† 2508 CFSM† 2.24 IN† 30.40
WTR YR 1981 TOTAL 447506 MEAN 1226 MAX 4550 MIN 268 MEAN† 1128 CFSM† 1.01 IN† 13.67

† ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—March 1968 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV 26...	1030	7700	--	7.0	8.0	13.0	8.9
JAN 29...	1500	370	7.2	7.4	18.0	7.0	11.9
MAR 24...	0830	4050	7.0	7.1	7.5	9.0	9.9
MAY 26...	0655	284	6.3	6.7	19.5	--	5.6
JUL 28...	1700	6540	6.5	6.5	36.0	24.0	4.1
SEP 29...	0630	360	6.8	6.6	11.0	24.0	5.0

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 26...	43	6	1.0	<30	16	6	.10	.100	.030	1500	150	<1.0
JAN 29...	43	8	.9	<30	15	<1	.17	.030	<.020	170	<5	<1.0
MAR 24...	42	12	.6	<30	16	6	.28	.130	<.020	230	<50	2.0
MAY 26...	44	5	.3	<30	13	3	.24	.060	.020	190	<50	3.0
JUL 28...	48	5	.9	<30	18	1	.04	.140	<.020	535	520	1.0
SEP 29...	47	3	.1	40	16	<1	.06	.040	<.020	160	60	<1.0

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.

LOCATION.—Lat 34°11'28", long 84°55'44", Bartow County, Hydrologic Unit 03150104, at Harden Bridge on county road, 1,000 ft (305 m) downstream from Ashpole Creek, and 3 mi (4.8 km) north of Euharlee.

DRAINAGE AREA.—1,610 mi2 (4,170 km2), revised.

PERIOD OF RECORD.—August 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Allatoona Reservoir. (See "Lakes and Reservoirs in Mobile River Basin", station 02393500.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 29...	1215	1000	7.8	7.8	12.0	16.0	8.9
NOV 26...	0900	920	7.4	7.3	6.0	11.5	10.0
DEC 09...	1720	2460	7.1	7.3	20.0	12.0	10.0
JAN 29...	1345	560	7.7	7.8	22.0	8.0	11.1
FEB 25...	0930	1180	7.4	7.5	8.0	7.0	10.2
MAR 24...	1000	805	7.5	7.8	14.0	11.0	10.0
APR 28...	1045	800	7.2	7.6	29.0	17.0	8.5
MAY 27...	1700	14000	6.8	6.6	28.0	19.0	7.9
JUN 24...	1600	680	8.4	8.2	36.0	24.5	9.8
JUL 28...	1600	665	7.7	7.5	37.0	26.5	8.1
AUG 25...	0930	560	7.5	7.5	26.5	24.0	6.8
SEP 30...	1500	535	7.2	7.6	34.5	22.0	9.4

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 29...	118	11	.9	90	46	43	4	.20	.020	.080	1.5
NOV 26...	70	13	.6	40	30	27	8	.16	.060	.040	<1.0
DEC 09...	69	9	.6	90	26	25	8	.20	.040	.070	2.0
JAN 29...	101	15	.6	40	38	39	7	.25	.030	.050	<1.0
FEB 25...	107	9	1.5	40	40	34	<1	.32	.070	.040	2.0
MAR 24...	126	13	.5	90	55	52	4	.45	.040	.060	1.0
APR 28...	119	9	.8	230	52	49	6	.42	.040	.050	4.0
MAY 27...	40	440	3.2	9300	16	12	952	.09	.050	.600	9.0
JUN 24...	140	8	.5	230	56	43	5	.30	.070	.030	1.5
JUL 28...	134	6	.7	--	62	45	5	.21	<.020	.030	1.0
AUG 25...	99	14	1.2	--	45	34	5	.90	.060	.060	<1.0
SEP 30...	108	5	.5	40	46	42	--	.16	<.020	.030	3.0

02395000 ETOWAH RIVER NEAR KINGSTON, GA.

LOCATION.—Lat 34°12'24", long 84°58'44", Bartow County, Hydrologic Unit 03150104, on downstream side of center pier of bridge on U.S. Highway 411, 1 mi (1.6 km) upstream from Two Run Creek, 1.5 mi (2.4 km) upstream from Connesena Creek, and 2.5 mi (4.0 km) southwest of Kingston.

DRAINAGE AREA.—1,630 mi^2 (4,220 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—July 1928 to December 1931, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1304, 1734.

REVISED RECORDS.—WSP 1304: 1929-30.

GAGE.—Water-stage recorder. Datum of gage is 609.97 ft (185.919 m) National Geodetic Vertical Datum of 1929 (Dixie Construction Co. bench mark). Prior to Aug. 11, 1928, nonrecording gage, Aug. 11, 1928, to Dec. 28, 1931, water-stage recorder, Nov. 16, 1936, to June 15, 1937, nonrecording gage, and June 16, 1937, to June 27, 1960, water-stage recorder, all 500 ft (152 m) upstream at same datum.

REMARKS.—Records good. Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.) Records of chemical analyses for the water years 1970-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.—48 years, 2,582 ft^3/s (73.1 m^3/s), 21.51 in/yr (546 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 42,700 ft^3/s (1,210 m^3/s) Apr. 9, 1938, gage height, 27.7 ft (8.44 m); minimum daily, 268 ft^3/s (7.59 m^3/s) Oct. 19, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known, about 31 ft (9.4 m) Dec. 11, 1919, from information by local resident, discharge, 52,000 ft^3/s (1,470 m^3/s).

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 14,300 ft^3/s (405 m^3/s) May 28, gage height, 14.32 ft (4.365 m); minimum daily, 520 ft^3/s (14.7 m^3/s) Jan. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2470	1310	1110	596	528	891	1930	2180	3810	1510	1150	2960
2	2300	670	2900	1700	1470	1500	1760	634	3730	1530	560	3350
3	1940	1900	3560	604	1650	1980	1330	627	3630	1470	942	2560
4	1250	2420	3280	575	1590	1450	1100	869	3360	1120	1320	2720
5	699	2010	2650	2740	1260	2380	1370	1240	3660	580	1140	1760
6	674	2030	866	3110	1220	2940	1990	1250	2280	1250	1510	789
7	683	2020	1220	2150	646	1010	1560	1240	970	2500	1510	693
8	1790	1320	1200	2350	639	908	1400	1250	1150	2410	1190	1450
9	980	625	2400	2130	1170	1450	1300	975	1790	2670	527	2190
10	1700	1220	2430	580	1820	2020	1220	562	2670	1870	937	2190
11	1360	1910	3190	527	6390	1980	884	870	2980	1040	1730	2170
12	542	1910	2780	2160	3910	1970	840	1220	2680	596	2080	1360
13	1140	1900	1830	2970	2170	1950	1420	1210	1510	2520	1900	590
14	1680	1890	604	585	1250	1340	1400	1200	855	2330	2150	1860
15	1970	1360	1490	563	1090	725	1370	1320	1650	2280	1480	2010
16	1820	661	2430	2330	1600	748	1340	989	2500	2220	621	1800
17	1570	3000	2450	1300	2330	1350	1330	610	2520	2240	815	1760
18	1060	2440	2480	520	4380	1380	729	1290	2520	1340	1500	1690
19	1170	1950	2440	531	3980	1480	724	2590	2510	595	1590	1560
20	1420	1940	1560	2110	2290	1420	1340	1330	1660	1080	1560	582
21	1800	1950	572	1420	3830	736	1400	1070	567	1620	2340	702
22	1760	1330	2060	1250	1360	715	1370	1290	1470	1660	1310	1710
23	1750	852	3660	1220	1880	1070	1350	976	2460	1670	600	1680
24	1140	1780	2180	865	3200	1070	1390	584	2500	1660	1120	1680
25	582	2990	582	544	3680	1050	762	756	2660	1170	1780	1600
26	591	4350	553	546	3600	1010	726	1480	2610	532	2200	1440
27	1170	2310	1200	869	3610	671	1270	10600	1670	898	1520	535
28	1950	2250	558	1220	2090	639	1260	10200	576	1520	1530	1580
29	1520	1950	1700	877	---	650	1270	4550	855	1550	964	2120
30	2060	689	1730	1210	---	3350	2980	3590	1330	1540	1750	1890
31	1910	---	1760	1200	---	4200	---	3030	---	1550	2550	---
TOTAL	44451	54937	59425	41352	64633	46033	40115	61582	65133	48521	43876	50981
MEAN	1434	1831	1917	1334	2308	1485	1337	1987	2171	1565	1415	1699
MAX	2470	4350	3660	3110	6390	4200	2980	10600	3810	2670	2550	3350
MIN	542	625	553	520	528	639	724	562	567	532	527	535

CAL YR 1980 TOTAL 1282504 MEAN 3504 MAX 17100 MIN 516 MEAN† 3492 CFSM† 2.14 IN† 29.09
WTR YR 1981 TOTAL 621039 MEAN 1701 MAX 10600 MIN 520 MEAN† 1603 CFSM† 0.98 IN† 13.35

† ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

02395000 ETOWAH RIVER NEAR KINGSTON, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—October 1969 to June 1974. April to September 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
APR				
30...	1520	3900	89	937
30...	1525	3900	90	948
JUN				
08...	0930	908	55	135
08...	0945	908	56	137
JUL				
23...	1045	585	7	11
23...	1100	585	6	9.5
SEP				
24...	1130	736	3	6.0
24...	1200	736	5	9.9

DATE	TIME	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
APR										
30...	1440	0	1	2	9	43	90	99	100	--
30...	1445	0	1	4	15	47	84	96	100	100
30...	1450	0	1	4	28	94	99	100	100	--

02395120 TWO RUN CREEK NEAR KINGSTON, GA.

LOCATION.—Lat 34°14'34", long 84°53'23", Bartow County, Hydrologic Unit 03150104, on left bank 200 ft (61 m) upstream from bridge on State Highway 20, 1.9 mi (3.1 km) upstream from Limekiln Branch, and 3 mi (4.8 km) east of Kingston.

DRAINAGE AREA.—33.1 mi^2 (85.7 km^2).

PERIOD OF RECORD.—May 1980 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 730 ft (220 m), from topographic map.

REMARKS.—Records good.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 531 ft^3/s (15.0 m^3/s) Mar. 30, 1981, gage height, 5.04 ft (1.56 m); minimum discharge, 7.1 ft^3/s (0.20 m^3/s) Sept. 29, 30, 1981.

EXTREMES FOR MAY 2, 1980 TO SEPT. 30, 1980.—Maximum discharge, 520 ft^3/s (14.7 m^3/s) May 19, gage height, 4.96 ft (1.512 m), no other peaks above base of 500 ft^3/s (14.2 m^3/s); minimum discharge, 12 ft^3/s (0.34 m^3/s) Sept. 14-17, 20-25, 27, 28.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 500 ft^3/s (14.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	(m^3/s)	Gage height (ft)	(m)
Mar. 30	1330	*531	15.0	5.04	1.536

Minimum discharge, 7.1 ft^3/s (0.20 m^3/s) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	50	25	17	15
2								61	46	25	17	15
3								57	43	24	17	14
4								54	40	24	17	13
5								51	39	23	18	15
6								48	37	24	17	15
7								46	36	23	17	13
8								46	35	22	17	13
9								44	33	22	17	13
10								41	32	21	16	13
11								40	31	21	16	13
12								39	31	21	16	13
13								38	31	19	16	13
14								40	30	19	16	12
15								39	29	19	16	12
16								37	28	19	16	12
17								54	28	20	16	16
18								56	34	25	16	14
19								236	30	19	16	13
20								341	29	19	16	13
21								153	28	18	16	13
22								115	27	18	16	12
23								273	28	18	14	12
24								338	48	18	15	12
25								120	53	18	15	24
26								89	35	18	15	15
27								73	31	23	14	13
28								71	29	20	14	21
29								62	28	18	21	37
30								56	27	18	22	62
31								52	---	17	14	---
TOTAL	---	---	---	---	---	---	---	---	1026	638	506	491
MEAN	---	---	---	---	---	---	---	---	34.2	20.6	16.3	16.4
MAX	---	---	---	---	---	---	---	---	53	25	22	62
MIN	---	---	---	---	---	---	---	---	27	17	14	12
CFSM	---	---	---	---	---	---	---	---	1.03	.62	.49	.50
IN.	---	---	---	---	---	---	---	---	1.15	.72	.57	.55

02395120 TWO RUN CREEK NEAR KINGSTON, GA.—Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	16	16	13	11	33	109	20	42	12	11	23
2	19	15	16	13	42	31	85	19	29	18	11	14
3	15	14	15	12	24	30	70	19	35	15	11	12
4	13	15	14	12	21	35	60	18	39	13	10	12
5	13	15	14	12	19	55	204	18	32	15	10	13
6	12	15	14	12	17	43	114	18	28	16	10	11
7	12	15	14	12	16	38	80	18	34	15	11	12
8	11	16	14	12	16	34	67	18	27	13	11	22
9	11	15	14	12	15	32	60	17	23	13	10	21
10	11	15	16	11	163	30	55	17	21	12	10	21
11	11	14	14	11	192	28	49	17	19	12	11	20
12	11	14	14	11	69	28	45	17	19	13	11	19
13	12	14	14	11	54	28	42	17	18	12	10	19
14	12	15	14	11	46	27	38	16	17	12	10	17
15	12	24	14	11	40	26	35	16	16	12	10	18
16	12	20	14	11	36	25	33	16	15	12	10	19
17	12	16	14	11	68	24	31	16	14	25	11	17
18	15	16	13	11	141	28	31	16	14	46	11	16
19	31	15	13	11	136	26	31	20	14	18	11	12
20	15	14	13	12	84	23	30	17	13	15	11	10
21	13	14	13	13	65	22	30	16	13	14	38	9.0
22	13	14	13	12	56	22	28	16	13	13	14	9.0
23	13	16	13	12	63	22	27	15	12	12	12	9.0
24	14	20	14	11	52	22	28	14	12	12	11	9.0
25	19	17	13	11	45	21	26	14	12	13	11	8.1
26	16	16	13	11	40	20	24	30	15	12	11	8.0
27	15	18	13	11	36	19	23	67	13	12	11	8.5
28	30	17	13	11	34	19	22	30	12	12	11	8.0
29	21	17	13	10	---	18	21	24	12	12	11	7.4
30	18	17	13	11	---	313	21	21	12	12	14	7.9
31	17	---	13	11	---	150	---	30	---	11	12	---
TOTAL	476	479	428	356	1601	1272	1519	627	595	454	367	411.9
MEAN	15.4	16.0	13.8	11.5	57.2	41.0	50.6	20.2	19.8	14.6	11.8	13.7
MAX	31	24	16	13	192	313	204	67	42	46	38	23
MIN	11	14	13	10	11	18	21	14	12	11	10	7.4
CFSM	.47	.48	.42	.35	1.73	1.24	1.53	.61	.60	.44	.36	.41
IN.	.53	.54	.48	.40	1.80	1.43	1.71	.70	.67	.51	.41	.46

WTR YR 1981 TOTAL 8585.9 MEAN 23.5 MAX 313 MIN 7.4 CFSM .71 IN 9.65

02396000 ETOWAH RIVER AT ROME, GA.

LOCATION.—Lat 34°15'26", long 85°09'30", Floyd County, Hydrologic Unit 03150104, on downstream side of center pier of Southern Railway bridge in Rome, 2 mi (3.2 km) upstream from confluence with Oostanaula River.
DRAINAGE AREA.—1,820 mi^2 (4,710 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—July to December 1903, August 1904 to June 1921 (published as "near Rome"), October 1938 to current year. Monthly discharge only for some periods, published in WSP 1304.
REVISED RECORDS.—WRD GA-80-1: Drainage area.
GAGE.—Water-stage recorder. Datum of gage is 561.70 ft (171.206 m) National Geodetic Vertical Datum of 1929. July 1 to Dec. 31, 1903, nonrecording gage at Second Avenue Bridge, 1 mi (1.6 km) downstream at different datum. Aug. 17, 1904, to June 30, 1921, nonrecording gage at Freemans Ferry, 5 mi (8.0 km) upstream at different datum. Since May 15, 1939, auxiliary water-stage recorder at Second Avenue Bridge, 1 mi (1.6 km) downstream.
REMARKS.—Records fair. Flow regulated by Allatoona Reservoir since 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)
AVERAGE DISCHARGE.—59 years (1904-20, 1938-81), 2,971 ft^3/s (84.1 m^3/s), 22.17 in/yr (563 mm/yr), unadjusted.
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 55,000 ft^3/s (1,560 m^3/s) Dec. 11, 1919, gage height, over 28 ft (8.5 m), at former site at Freemans Ferry, computed from data at upstream stations; minimum daily, 360 ft^3/s (10.2 m^3/s) Oct. 10, 1904.
EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known, that of Dec. 11, 1919. Flood of Apr. 9, 1938, reached a stage of 37.5 ft (11.43 m), discharge, 46,500 ft^3/s (1,320 m^3/s), from gage readings and discharge measurements by U.S. Army Corps of Engineers.
EXTREMES FOR CURRENT YEAR.—Maximum discharge, 13,100 ft^3/s (371 m^3/s) May 28, maximum gage height, 18.53 ft (5.648 m) May 28; minimum daily discharge, 615 ft^3/s (17.4 m^3/s) Aug. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2700	1830	1050	1410	724	1200	2140	3620	3460	1550	1650	2910
2	2500	861	2730	1290	1200	1480	1720	1150	3920	1830	698	3480
3	2200	1080	3320	1400	1710	1970	1490	861	3670	1690	687	2970
4	1600	2910	3590	770	1650	2000	1300	845	3450	1670	1620	2540
5	770	2210	3070	1670	1430	2570	1620	1470	3200	793	1050	2670
6	750	2170	1530	3840	1410	2900	2130	1460	3250	785	1600	980
7	740	2180	1430	2210	1200	1770	1670	1470	800	2030	1600	823
8	2000	1900	996	2480	838	1170	1490	1460	940	2990	1650	774
9	800	804	2550	2350	1010	1430	1510	1450	1310	2520	654	2240
10	1700	1040	2580	1340	1300	2270	1490	789	2050	2410	615	2260
11	1500	2090	2930	734	6520	2250	1310	792	3100	1760	1770	2250
12	710	2060	3200	1470	5030	2220	1070	1400	3080	777	1730	2250
13	770	2080	2460	3420	2480	2230	1350	1400	2230	1080	2410	739
14	1710	2070	842	1230	1740	1870	1650	1400	1120	3010	1640	801
15	1720	1890	1200	774	1460	1000	1650	1490	972	2340	2450	3070
16	2480	856	2610	1970	1540	968	1620	1440	2710	2370	789	1870
17	1630	1180	2610	2070	2460	1250	1600	809	2680	2350	636	1880
18	1770	3690	2650	745	4340	1600	1300	789	2670	2470	1540	1800
19	1260	2130	2610	723	4960	1720	972	3030	2670	756	1680	1770
20	1500	2130	2190	1410	3700	1670	1250	1760	2670	730	1660	753
21	2040	2120	792	2430	3400	1310	1620	1030	900	1820	2190	740
22	1980	1890	1380	1460	2600	966	1630	1510	850	1750	2070	1780
23	1970	1030	3710	1420	1800	1070	1620	1460	2610	1770	727	1750
24	1340	1350	3090	1060	2000	1280	1630	783	2620	1760	670	1750
25	1060	3050	815	740	4100	1260	1330	745	2640	1750	1630	1700
26	786	3300	754	712	3800	1240	904	1420	2840	690	2480	1600
27	1010	4010	1380	1040	3790	1110	1260	8110	2710	658	1640	720
28	2080	1650	774	1400	3070	866	1490	10600	796	1590	1620	680
29	2020	2910	1250	1070	---	839	1470	5210	765	1670	1620	2400
30	1950	944	1910	1380	---	2600	1830	4750	1570	1670	1260	1700
31	2100	---	1910	1400	---	5200	---	3410	---	1650	2460	---
TOTAL	49146	59415	63913	47418	71262	53279	45116	67913	68253	52689	46496	53650
MEAN	1585	1981	2062	1530	2545	1719	1504	2191	2275	1700	1500	1788
MAX	2700	4010	3710	3840	6520	5200	2140	10600	3920	3010	2480	3480
MIN	710	804	754	712	724	839	904	745	765	658	615	680

CAL YR 1980 TOTAL 1472531 MEAN 4023 MAX 20600 MIN 669 MEAN† 4011 CFSM† 2.20 IN† 29.92
WTR YR 1981 TOTAL 678550 MEAN 1859 MAX 10600 MIN 615 MEAN† 1761 CFSM† 0.97 IN† 13.13

† ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

02396000 ETOWAH RIVER AT ROME, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—March 1968 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 28...	1515	1500	7.7	7.8	18.0	16.0	8.4
NOV 25...	1315	2780	7.7	7.5	12.0	13.5	9.2
DEC 09...	0930	4140	7.3	7.6	17.5	11.5	10.7
JAN 29...	1230	1700	7.7	7.8	18.0	7.0	9.2
FEB 26...	1100	4200	--	7.4	20.5	7.5	9.8
MAR 25...	1115	980	--	8.1	17.0	12.0	10.7
APR 29...	1030	902	--	7.8	19.5	19.0	7.6
MAY 27...	1030	9450	7.2	7.1	27.0	18.0	5.0
JUN 24...	0830	4420	--	7.6	27.0	23.0	7.5
JUL 28...	1300	1580	7.1	7.6	37.0	27.0	7.0
AUG 26...	1515	1600	7.5	7.3	30.5	25.5	7.0
SEP 30...	0900	3520	7.5	7.4	19.5	21.5	8.0

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 28...	101	8	1.3	160	50	42	7	.17	.020	.100	2.0
NOV 25...	74	11	.7	430	28	28	20	.20	.040	.060	<1.0
DEC 09...	98	18	.6	230	36	36	25	.26	<.020	.070	2.0
JAN 29...	94	15	.5	<30	36	38	6	.22	.020	.090	<1.0
FEB 26...	84	15	.8	40	32	28	27	.27	.050	.080	<1.0
MAR 25...	128	15	1.0	230	54	56	7	.34	.030	.100	<1.0
APR 29...	129	10	.6	70	60	54	18	.42	<.020	.040	2.0
MAY 27...	62	660	3.3	9300	34	23	2250	.35	.070	1.14	4.0
JUN 24...	107	26	.9	430	48	35	48	.28	<.020	.090	1.0
JUL 28...	155	11	.8	230	64	52	17	.32	<.020	.060	1.0
AUG 26...	61	18	1.1	450	34	23	31	.09	.050	.040	1.0
SEP 30...	75	15	.5	930	30	30	21	.10	<.020	.040	<1.0

02397000 COOSA RIVER NEAR ROME, GA.

LOCATION.—Lat 34 12'01", long 85 15'24", Floyd County, Hydrologic Unit 03150105, on left bank attached to shoreward side of lock wall of Mayos Bar lock near upstream end, 1.5 mi (2.4 km) upstream from Webb Creek, 6 mi (9.7 km) southwest of Rome, 7.5 mi (12.1 km) downstream from confluence of Oostanaula and Etowah Rivers, and at mile 278.6 (448.3 km).

DRAINAGE AREA.—4,040 mi^2 (10,500 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1896 to December 1903 (published as "at Rome"), June 1928 to December 1931, March 1937 to December 1958, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1304. Water years 1959-62 (annual maximum only). Gage-height records collected at same site 1922-49, are contained in reports of National Weather Service.

REVISED RECORDS.—WSP 1906: 1959(M).

GAGE.—Water-stage recorder. Datum of gage is 553.05 ft (168.570 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Jan. 1, 1897, to Dec. 31, 1903, nonrecording gage at site 7.5 mi (12.1 km) upstream at datum 8.65 ft (2.64 m) higher. June 21, 1928, to Dec. 31, 1931, and Mar. 10, 1937, to Dec. 31, 1958, water-stage recorder at site 200 ft (61 m) downstream at same datum. Water-stage recorder at Fifth Avenue in Rome used as auxiliary gage since 1963.

REMARKS.—Records good. Flow regulated by Allatoona Reservoir since December 1949 and by Carters Lake and Carters re-regulation Reservoir since November 1974. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400, 02382400, and 02393500.)

AVERAGE DISCHARGE.—50 years (1896-1903, 1928-31, 1937-58, 1962-81), 6,737 ft^3/s (191 m^3/s), 22.65 in/yr (575 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge 65,000 ft^3/s (1,840 m^3/s) Jan. 22, 1947, gage height, 37.0 ft (11.28 m); minimum daily, 870 ft^3/s (24.6 m^3/s) Oct. 18-22, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1834, 40.3 ft (12.28 m) at site and datum at Rome, equivalent to about 43 ft (13.1 m) at present site, from gage-height relation, Apr. 1, 1886, discharge, 100,000 ft^3/s (2,830 m^3/s), from rating curve extended above 63,000 ft^3/s (1,780 m^3/s) on basis of peak flow at Gadsden, Ala.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 22,000 ft^3/s (623 m^3/s) Feb. 12, gage height, 20.29 ft (6.184 m); minimum daily, 1,250 ft^3/s (35.4 m^3/s) Sept. 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6330	3460	2930	2740	1590	4230	18100	5480	5930	2560	2310	4050
2	5980	1840	4150	1740	3960	4130	15500	2940	9020	3020	1410	4330
3	4220	1750	4560	2450	6500	4550	9970	2270	9200	3010	1400	3830
4	3340	3760	4930	1440	6870	5180	6910	2130	8960	2750	2300	3480
5	1820	3010	4410	1770	4860	6460	8110	2670	11200	1800	1730	4140
6	1680	3190	2900	4800	3560	7290	9710	2890	12800	1800	2260	2240
7	1580	3190	2430	3470	3110	6860	9790	3060	9090	3070	2280	1800
8	3010	2990	1830	4190	2400	5220	8260	3040	8430	4540	2400	1870
9	1920	1740	3560	3260	2410	4400	6880	3040	9560	4560	1570	3560
10	2670	1550	4080	2370	6220	5200	6060	2440	10000	3520	1600	3310
11	2440	2710	4510	1440	18300	4780	5380	2470	7550	2640	2650	2950
12	1460	2710	5210	1610	20200	4400	4840	3360	6310	1670	2540	2960
13	1520	2710	4490	4250	15000	4290	4650	3680	5390	1780	3340	1650
14	2600	2720	2220	2350	11600	4050	4740	2980	3260	4150	2480	1380
15	2420	2970	2080	1420	6950	2930	4140	2850	2990	3330	3320	3730
16	3120	1980	3930	2170	5430	2880	4050	2780	4500	3390	1540	2610
17	2220	3530	4000	3010	6010	3420	3880	2290	4510	3560	1390	2570
18	2690	5940	3890	1410	11000	4020	3860	2420	4310	3930	2250	2610
19	3080	3320	3890	1360	15500	3750	3460	4860	4220	1890	2690	2580
20	3300	2910	3400	1910	15400	3760	3670	3570	4190	1700	2840	1470
21	4070	2780	1670	3200	14800	3330	4110	3690	2260	2720	3650	1330
22	3080	2690	1750	2230	12600	2660	3930	4090	2230	2570	3650	2090
23	2890	1860	4540	2250	8170	2970	3520	3340	4050	2480	2370	2110
24	1980	2780	4420	1910	7510	3340	3450	2080	4020	2410	1990	2070
25	1840	5380	5490	1600	8090	3350	3670	1890	4010	2610	2540	2110
26	1460	5830	1820	1510	7320	3220	3840	2600	4170	1440	3340	2110
27	1520	6800	2460	1730	7360	2990	3220	8210	3990	1410	2370	1250
28	3620	3390	1700	2090	6510	2520	3250	13600	1920	2420	2260	1250
29	3900	4960	1670	1860	---	2400	3790	10000	1810	2420	2250	3800
30	3550	2710	2690	2210	---	9490	4000	9080	2520	2550	3440	2930
31	4390	---	3050	2250	---	20100	---	6420	---	2340	3790	---
TOTAL	89700	97160	104660	72000	239230	148170	178740	126220	172400	84040	75950	78170
MEAN	2894	3239	3376	2323	8544	4780	5958	4072	5747	2711	2450	2606
MAX	6330	6800	5490	4800	20200	20100	18100	13600	12800	4560	3790	4330
MIN	1460	1550	1670	1360	1590	2400	3220	1890	1810	1410	1390	1250

CAL YR 1980 TOTAL 3096200 MEAN 8460 MAX 43300 MIN 1040 MEAN† 8456 CFSM† 2.09 IN† 28.41
WTR YR 1981 TOTAL 1466440 MEAN 4018 MAX 20200 MIN 1250 MEAN† 3910 CFSM† 0.97 IN† 13.14

† ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE, CARTERS RE-REGULATION DAM, AND ALLATOONA RESERVOIR.

02397000 COOSA RIVER NEAR ROME, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.82	12.59	12.48	12.27	11.67	12.94	18.53	13.46	13.65	12.21	12.05	12.96
2	13.68	11.86	13.01	11.75	12.82	12.91	17.42	12.38	14.86	12.41	11.51	13.13
3	12.92	11.80	13.18	12.11	13.89	13.08	15.23	12.08	14.94	12.41	11.50	12.95
4	12.52	12.72	13.24	11.54	14.03	13.34	14.05	12.01	14.84	12.29	12.04	12.80
5	11.85	12.41	13.02	11.71	13.21	13.87	14.51	12.26	15.71	11.84	11.76	13.08
6	11.75	12.49	12.36	13.18	12.66	14.19	15.14	12.36	16.32	11.83	12.03	12.23
7	11.67	12.49	12.15	12.62	12.46	14.02	15.17	12.44	14.90	12.43	12.04	12.01
8	12.36	12.40	11.85	12.92	12.14	13.36	14.57	12.43	14.64	13.07	12.10	12.06
9	11.91	11.79	12.66	12.53	12.15	13.01	14.03	12.43	15.08	13.07	11.66	12.82
10	12.21	11.64	12.88	12.08	13.73	13.35	13.71	12.16	15.24	12.62	11.69	12.71
11	12.12	12.27	13.06	11.54	18.66	13.17	13.43	12.17	14.29	12.23	12.23	12.54
12	11.56	12.27	13.36	11.61	19.47	13.01	13.20	12.57	13.80	11.74	12.18	12.55
13	11.62	12.27	13.05	12.95	17.22	12.97	13.12	12.71	13.42	11.81	12.54	11.90
14	12.22	12.28	12.05	12.06	15.87	12.87	13.16	12.40	12.53	12.89	12.15	11.66
15	12.13	12.40	11.98	11.53	14.06	12.38	12.91	12.34	12.41	12.54	12.53	12.89
16	12.44	11.94	12.82	11.97	13.45	12.36	12.87	12.31	13.05	12.57	11.63	12.39
17	12.05	12.64	12.85	12.41	13.69	12.60	12.80	12.09	13.06	12.65	11.49	12.37
18	12.26	13.66	12.80	11.51	15.61	12.86	12.79	12.15	12.97	12.81	12.01	12.39
19	12.45	12.75	12.80	11.46	17.42	12.74	12.62	13.20	12.93	11.88	12.25	12.38
20	12.53	12.55	12.59	11.83	17.36	12.74	12.71	12.67	12.92	11.76	12.33	11.75
21	12.88	12.50	11.73	12.49	17.13	12.55	12.89	12.72	12.07	12.26	12.69	11.61
22	12.44	12.46	11.74	12.04	16.24	12.26	12.82	12.88	12.06	12.19	12.69	12.09
23	12.36	12.06	13.07	12.05	14.54	12.40	12.64	12.56	12.85	12.14	12.13	12.10
24	11.93	12.50	13.02	11.89	14.28	12.57	12.61	11.99	12.85	12.10	11.94	12.08
25	11.85	13.63	11.76	11.68	14.50	12.57	12.71	11.89	12.84	12.20	12.18	12.10
26	11.56	13.81	11.85	11.61	14.20	12.51	12.78	12.23	12.91	11.54	12.53	12.11
27	11.60	14.09	12.15	11.76	14.22	12.41	12.51	14.51	12.83	11.51	12.09	11.53
28	12.68	12.69	11.76	11.95	13.88	12.19	12.52	16.66	11.91	12.11	12.02	11.53
29	12.81	13.34	11.70	11.85	---	12.14	12.76	15.24	11.84	12.12	12.01	12.91
30	12.65	12.38	12.25	12.01	---	15.03	12.85	14.89	12.19	12.18	12.60	12.46
31	13.01	---	12.43	12.05	---	19.40	---	13.84	---	12.07	12.76	---
MEAN	12.32	12.56	12.50	12.03	14.66	13.15	13.64	12.84	13.53	12.24	12.11	12.34
MAX	13.82	14.09	13.36	13.18	19.47	19.40	18.53	16.66	16.32	13.07	12.76	13.13
MIN	11.56	11.64	11.70	11.46	11.67	12.14	12.51	11.89	11.84	11.51	11.49	11.53

WTR YR 1981 MEAN 12.81 MAX 19.47 MIN 11.46

02397000 COOSA RIVER NEAR ROME, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—March 1968 to current year.
REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 29...	1145	4490	7.5	7.6	11.5	15.5	8.3
NOV 25...	1530	5360	7.4	7.5	15.5	12.0	9.3
DEC 09...	1050	4750	7.3	7.6	18.5	11.5	10.4
JAN 28...	1445	2910	7.4	7.7	13.5	8.0	10.2
FEB 26...	1545	6610	--	7.4	26.0	8.5	8.7
MAR 25...	1515	3100	7.6	7.7	19.5	12.0	8.8
APR 29...	1545	3320	7.5	7.5	29.0	20.0	6.5
MAY 27...	1415	7910	7.1	7.2	22.0	18.5	7.0
JUN 24...	1400	4610	7.6	7.6	37.0	24.5	7.5
JUL 28...	1100	3570	7.4	7.5	35.0	28.0	5.8
AUG 26...	1630	3100	7.6	7.5	33.0	25.5	7.0
SEP 30...	1150	4200	7.2	7.3	27.0	21.0	6.4

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 29...	124	14	1.4	1600	48	47	.20	.050	.180	1.0
NOV 25...	102	20	.6	2300	36	39	.24	.060	.160	2.0
DEC 09...	120	10	1.1	390	50	43	.24	.040	.130	3.0
JAN 28...	156	8	1.2	70	66	62	.26	.090	.250	1.5
FEB 26...	91	14	1.0	230	34	31	.34	.090	.110	2.0
MAR 25...	143	13	1.2	430	62	56	.30	.070	.140	1.5
APR 29...	130	14	.9	930	64	51	.40	.080	.170	2.0
MAY 27...	82	380	2.6	23000	34	29	.35	.080	.730	3.0
JUN 24...	119	23	.7	230	50	40	.29	.040	.090	1.0
JUL 28...	152	13	1.1	4300	64	53	.34	.050	.210	7.0
AUG 26...	107	21	1.1	2300	48	38	.19	.060	.100	10
SEP 30...	121	11	.8	2300	41	37	.22	.040	.310	3.0

02397410 CEDAR CREEK AT CEDARTOWN, GA.

LOCATION.--Lat 33°59'45", long 85°15'53", Polk County, Hydrologic Unit 03150105, at bridge on Georgia Avenue at Cedartown, 1.1 mi (1.8 km) downstream from Pumpkin Pile Creek, and at mile 29.9 (48.1 km).

DRAINAGE AREA.--66.9 mi^2 (173 km^2).

PERIOD OF RECORD.--May to September 1981.

GAGE.--Water-stage recorder. Datum of gage is 758.91 ft (231.316 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 124 ft^3/s (3.51 m^3/s) May 26, 1981, gage height, 4.22 ft (1.286 m); minimum daily discharge, 13 ft^3/s (0.37 m^3/s) Sept. 25-28, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 4, 1979, reached a stage of 21.1 ft (6.431 m) from floodmarks, discharge, 16,500 ft^3/s (467 m^3/s) from rating curve extended above 4,500 ft^3/s (127 m^3/s) on basis of contracted-opening and flow-over-road computation of peak flow.

EXTREMES FOR MAY 4, 1981 TO SEPTEMBER 30, 1981.--Maximum discharge, 124 ft^3/s (3.52 m^3/s) May 26, gage height, 4.22 ft (1.286 m); minimum daily discharge, 13 ft^3/s (0.37 m^3/s) Sept. 25-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	60	21	19	19
2								---	54	61	20	19
3								---	51	39	20	27
4								27	43	27	20	23
5								25	33	27	20	21
6								25	30	49	19	19
7								26	48	42	19	19
8								25	41	28	21	18
9								24	34	24	17	18
10								26	30	23	18	17
11								27	28	22	19	17
12								24	28	22	18	17
13								22	27	21	18	17
14								22	26	20	17	17
15								21	25	20	17	18
16								21	24	20	17	19
17								21	24	19	18	16
18								21	23	19	25	16
19								46	23	19	23	15
20								32	23	19	21	15
21								26	22	18	22	14
22								23	22	18	21	14
23								22	22	18	20	14
24								21	21	18	20	14
25								20	21	18	19	13
26								41	21	18	19	13
27								74	20	20	19	13
28								32	20	19	19	13
29								24	19	18	19	14
30								22	20	19	30	14
31								30	---	19	21	---
TOTAL								---	883	745	615	503
MEAN								---	29.4	24.0	19.8	16.8
MAX								---	60	61	30	27
MIN								---	19	18	17	13
CFSM								---	.44	.36	.30	.25
IN.								---	.49	.41	.34	.28

02397500 CEDAR CREEK NEAR CEDARTOWN, GA.

LOCATION.—Lat 34°03'38", long 85°18'41", Polk County, Hydrologic Unit 03150105, at bridge on State Highway 161, 4.5 mi (7.2 km) upstream from Lake Creek, and 4.5 mi (7.2 km) northwest of Cedartown.

DRAINAGE AREA.—115 mi^2 (298 km^2), revised.

PERIOD OF RECORD.—February 1968 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for the water years 1943-73 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 29...	0915	150	7.3	7.4	12.0	14.0	5.9
NOV 25...	1600	61	7.9	7.9	12.0	12.5	9.0
DEC 09...	1530	60	7.4	7.6	20.0	14.0	--
JAN 28...	1630	56	7.8	8.2	13.0	11.0	9.1
FEB 26...	1645	150	--	7.7	25.0	13.5	7.3
MAR 25...	1615	98	--	8.4	23.0	15.0	11.7
APR 29...	1700	75	7.7	8.1	27.5	20.0	9.5
MAY 27...	1545	122	--	7.7	26.5	19.5	7.1
JUN 24...	1500	49	8.5	8.4	36.0	24.0	10.2
JUL 28...	1200	39	7.6	7.6	36.0	23.5	4.3
AUG 26...	1745	38	8.0	7.9	29.5	22.0	7.6
SEP 30...	1300	38	7.7	7.6	34.0	18.0	4.9

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 29...	182	14	2.6	930	72	73	.22	.080	.140	4.5
NOV 25...	275	3	1.1	70	120	122	.50	.120	.260	<1.0
DEC 09...	305	2	1.4	230	132	126	.56	.100	.250	3.0
JAN 28...	296	5	1.6	<30	120	126	.22	.040	.310	5.0
FEB 26...	205	5	1.3	1600	88	87	.45	.020	.070	<1.0
MAR 25...	220	9	2.3	150	96	96	.28	.030	.140	4.0
APR 29...	242	5	1.5	4300	126	120	.42	.200	.280	2.0
MAY 27...	197	12	1.4	3900	90	93	.36	.080	.140	2.0
JUN 24...	296	4	1.7	310	137	133	.07	.020	.380	4.0
JUL 28...	264	4	1.0	<30	130	128	.19	.210	.270	4.5
AUG 26...	252	8	1.0	230	134	130	.35	.050	.340	<1.0
SEP 30...	293	4	1.3	430	144	139	.20	.420	.380	10

02397530 COOSA RIVER NEAR COOSA, GA.

LOCATION.—Lat 34°11'54", long 85°26'46", Floyd County, Ga.-Cherokee County, Ala., Hydrologic Unit 03150105, 6.5 mi (10.5 km) southwest of Coosa, and at mile 254.8 (410.0 km).

DRAINAGE AREA.—4,360 mi^2 (11,300 km^2), approximately.

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: August 1976 to current year.
pH: August 1976 to current year.
WATER TEMPERATURE: August 1976 to current year.
DISSOLVED OXYGEN: August 1976 to current year.

PERIOD OF RECORD.—August 1974 to current year.

REMARKS.—Flow regulated by Allatoona Reservoir and by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400, 02382400, and 02393500). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: Maximum, 253 micromhos Sept. 15, 1977; minimum, 32 micromhos Apr. 15, 1979.
pH: Maximum, 9.7 units Dec. 5, 1977; minimum, 6.3 units Nov. 6-12, 1977.
WATER TEMPERATURE: Maximum recorded, 34.0°C July 15, 1977, July 24, 1981; minimum, 2.5°C Jan. 18, 19, 1977.
DISSOLVED OXYGEN: Maximum, 14.4 mg/L Jan. 20, 1977; minimum recorded, 1.4 mg/L July 8, 1977.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum recorded, 223 micromhos Jan. 29; minimum, 67 micromhos May 28.
pH: Maximum recorded, 9.1 units May 25; minimum recorded, 6.7 units Sept. 9, 10.
WATER TEMPERATURE: Maximum recorded, 34.0°C July 24; minimum, 4.5°C Jan. 14, 15.
DISSOLVED OXYGEN: Maximum, 13.1 mg/L Jan. 15; minimum recorded, 2.0 mg/L July 24.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT								
16...	1300	160	164	7.6	7.5	26.5	22.0	6.3
NOV								
13...	1020	174	181	7.4	7.4	14.5	17.0	6.7
DEC								
18...	1115	149	155	7.6	7.6	6.5	10.0	9.8
JAN								
22...	1145	178	187	7.6	7.7	5.0	6.5	11.2
FEB								
23...	1610	91	93	7.3	7.3	10.0	12.0	9.5
MAR								
09...	1400	132	129	7.4	7.4	15.0	13.5	9.6
APR								
14...	1500	135	143	7.4	7.4	30.0	22.5	7.2
MAY								
20...	1415	167	174	7.3	7.6	18.0	20.0	6.0
JUN								
17...	1230	145	156	7.1	7.3	30.5	28.5	4.3
JUL								
14...	1245	124	132	7.0	7.5	36.5	29.5	3.8
AUG								
25...	1015	142	149	7.2	7.3	23.5	27.5	5.6
SEP								
22...	1300	142	145	7.3	7.4	24.5	24.5	5.7

02397530 COOSA RIVER NEAR COOSA, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)
OCT							
16...	8	10	1.0	40	135	55	7
NOV							
13...	6	--	.9	<30	56	62	--
DEC							
18...	10	7	.8	90	52	55	8
JAN							
22...	8	11	.9	40	58	63	6
FEB							
23...	29	11	1.1	430	32	29	27
MAR							
09...	19	8	1.2	1500	52	50	17
APR							
14...	6	8	1.1	<30	--	53	6
MAY							
20...	12	11	1.1	--	56	59	16
JUN							
17...	14	15	1.1	230	48	55	16
JUL							
14...	8	11	1.1	230	40	42	17
AUG							
25...	13	4	1.5	40	46	45	22
SEP							
22...	6	16	1.2	70	48	47	5

DATE	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT						
16...	124	.31	.060	.36	.170	2.5
NOV						
13...	--	.31	.110	--	.160	3.5
DEC						
18...	116	.26	.060	.30	.180	3.0
JAN						
22...	180	.31	.200	.50	.270	3.0
FEB						
23...	84	.29	.050	.20	.110	3.0
MAR						
09...	100	.29	.080	.40	.120	2.0
APR						
14...	114	.32	.080	.30	.100	2.0
MAY						
20...	144	.40	.160	.40	.220	4.0
JUN						
17...	128	.36	.100	.50	.120	1.0
JUL						
14...	120	.25	.050	.40	.150	3.5
AUG						
25...	120	.02	.060	.40	.180	1.5
SEP						
22...	130	.27	.130	.60	.160	2.5

02397530 COOSA RIVER NEAR COOSA, GA.—Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	157	135	168	158	148	128	164	143	204	177	119	108
2	151	130	175	161	154	125	159	138	204	169	128	111
3	133	130	172	162	157	153	158	139	169	159	137	127
4	134	129	163	152	157	117	161	141	156	144	155	138
5	130	127	172	157	128	106	161	139	145	136	149	132
6	137	129	190	165	119	105	171	145	143	135	138	126
7	144	131	183	144	128	110	166	130	144	135	131	125
8	154	145	159	144	131	115	127	106	151	144	132	127
9	165	156	156	153	158	135	147	118	154	143	131	129
10	174	166	161	154	165	148	148	121	175	144	143	132
11	192	172	163	155	163	135	121	113	144	93	152	142
12	193	182	189	156	137	123	125	122	93	85	154	139
13	181	166	188	179	124	111	172	126	96	92	143	135
14	173	157	192	168	123	113	172	161	95	94	149	142
15	175	161	169	151	136	125	166	147	103	94	151	146
16	180	162	163	150	160	139	160	125	115	103	153	149
17	189	180	166	148	161	152	186	137	130	115	168	154
18	185	142	177	156	161	133	186	178	132	113	174	170
19	151	144	176	157	135	121	193	184	112	100	178	174
20	159	139	158	127	130	114	201	179	103	98	180	166
21	163	147	147	136	132	121	207	175	100	97	170	157
22	159	148	153	144	140	131	206	187	100	90	175	162
23	165	156	148	138	157	127	191	169	97	91	184	164
24	163	140	155	135	156	130	167	158	116	99	195	173
25	142	138	177	142	123	100	186	164	122	111	195	186
26	148	143	171	132	124	104	200	162	115	106	195	183
27	165	146	144	121	144	115	199	175	121	105	186	179
28	189	167	142	114	155	145	210	199	122	108	185	176
29	211	184	139	111	171	157	223	207	---	---	185	176
30	195	184	148	139	186	163	211	201	---	---	185	138
31	182	161	---	---	190	157	203	189	---	---	134	89
MONTH	211	127	192	111	190	100	223	106	204	85	195	89

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	92	86	170	142	118	91	150	130	---	---	131	111
2	95	89	138	130	113	105	162	151	---	---	152	128
3	111	97	135	126	---	---	193	163	---	---	135	113
4	121	109	127	113	112	103	199	186	184	173	119	111
5	128	120	147	124	117	105	---	---	176	169	128	112
6	127	116	173	146	107	99	---	---	178	171	139	122
7	122	116	184	171	105	96	---	---	187	174	129	123
8	121	113	189	184	115	100	163	149	196	183	132	127
9	117	111	184	163	123	107	172	145	181	177	149	129
10	121	117	181	163	124	106	145	128	181	174	147	133
11	124	119	168	154	114	107	138	126	188	164	188	148
12	132	124	177	156	123	106	137	131	174	164	176	144
13	147	129	173	160	122	110	134	125	186	175	144	133
14	154	141	163	153	129	124	139	125	204	179	144	136
15	156	147	173	162	133	127	169	142	203	157	143	131
16	159	144	178	159	142	135	188	154	160	132	161	144
17	155	138	184	165	164	136	178	128	144	135	177	140
18	160	150	172	160	183	136	151	126	152	143	180	124
19	163	153	180	158	143	132	157	138	148	139	155	127
20	166	155	183	163	142	125	156	151	179	148	156	149
21	162	151	179	162	135	124	153	147	185	176	151	137
22	166	151	158	127	133	130	163	150	186	140	152	139
23	174	158	153	134	146	130	179	162	172	141	162	143
24	165	145	173	152	161	145	197	180	172	158	182	162
25	167	148	177	167	185	153	---	---	157	145	183	162
26	170	156	173	164	150	126	---	---	169	143	189	140
27	173	159	185	158	137	125	---	---	185	166	156	138
28	176	168	177	67	127	124	---	---	186	177	155	133
29	183	175	85	70	131	125	---	---	178	141	155	137
30	185	168	116	76	132	127	---	---	145	128	167	150
31	---	---	105	87	---	---	---	---	132	107	---	---
MONTH	185	86	189	67	185	91	199	125	204	107	189	111
YEAR	223	67										

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.6	7.5	7.4	7.3	7.5	7.5	7.8	7.6	7.6	7.6	7.4	7.4
2	7.5	7.4	7.5	7.4	7.5	7.4	7.7	7.5	7.7	7.5	7.4	7.4
3	7.5	7.4	7.4	7.4	7.6	7.3	7.6	7.5	7.5	7.4	7.4	7.4
4	7.5	7.4	7.4	7.4	7.6	7.5	7.6	7.5	7.5	7.4	7.5	7.4
5	7.4	7.4	7.4	7.4	7.5	7.4	7.6	7.6	7.4	7.3	7.5	7.4
6	7.6	7.4	7.6	7.4	7.4	7.3	7.7	7.6	7.4	7.3	7.5	7.4
7	7.6	7.4	7.6	7.4	7.4	7.4	7.8	7.6	7.4	7.4	7.4	7.3
8	7.6	7.4	7.4	7.4	7.5	7.4	7.6	7.4	7.5	7.4	7.4	7.4
9	7.6	7.5	7.5	7.4	7.5	7.4	7.6	7.5	7.6	7.5	7.4	7.3
10	7.8	7.4	7.5	7.4	7.6	7.5	7.7	7.5	7.6	7.4	7.4	7.4
11	7.8	7.6	7.5	7.4	7.6	7.4	7.5	7.4	7.6	7.2	7.6	7.4
12	7.7	7.6	7.5	7.4	7.4	7.4	7.5	7.5	7.2	7.2	7.5	7.5
13	7.6	7.5	7.4	7.4	7.4	7.4	7.6	7.4	7.3	7.2	7.5	7.4
14	7.7	7.4	7.6	7.4	7.4	7.4	7.8	7.6	7.4	7.3	7.5	7.4
15	7.6	7.4	7.4	7.4	7.5	7.4	7.8	7.7	7.4	7.3	7.5	7.4
16	7.5	7.4	7.5	7.4	7.5	7.4	7.6	7.5	7.5	7.4	7.5	7.4
17	7.7	7.5	7.5	7.4	7.7	7.5	7.5	7.4	7.6	7.5	7.5	7.4
18	7.7	7.5	7.4	7.3	7.7	7.5	7.6	7.5	7.6	7.5	7.5	7.4
19	7.5	7.5	7.5	7.3	7.5	7.5	7.7	7.6	7.5	7.3	7.6	7.5
20	7.5	7.4	7.5	7.2	7.5	7.5	7.7	7.6	7.4	7.3	7.6	7.5
21	7.4	7.4	7.4	7.2	7.5	7.5	7.6	7.5	7.4	7.3	7.5	7.4
22	7.4	7.3	7.4	7.4	7.5	7.5	7.7	7.5	7.4	7.3	7.5	7.4
23	7.5	7.4	7.4	7.4	7.5	7.4	7.7	7.5	7.4	7.3	7.5	7.4
24	7.5	7.4	7.4	7.4	7.7	7.5	7.6	7.5	7.5	7.3	7.5	7.4
25	7.5	7.4	7.5	7.4	7.6	7.4	7.6	7.5	7.6	7.5	7.5	7.4
26	7.4	7.4	7.5	7.3	7.5	7.4	7.6	7.5	7.5	7.4	7.6	7.5
27	7.4	7.4	7.4	7.3	7.5	7.5	7.6	7.6	7.5	7.4	7.6	7.5
28	7.5	7.4	7.4	7.2	7.6	7.5	7.6	7.5	7.5	7.5	7.5	7.5
29	7.5	7.4	7.3	7.3	7.6	7.6	7.6	7.5	---	---	7.5	7.4
30	7.6	7.4	7.5	7.3	7.8	7.6	7.6	7.6	---	---	7.5	7.3
31	7.5	7.4	---	---	7.8	7.6	7.6	7.6	---	---	7.3	6.9
MONTH	7.8	7.3	7.6	7.2	7.8	7.3	7.8	7.4	7.7	7.2	7.6	6.9

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.0	6.9	7.4	7.3	7.1	6.9	7.6	7.0	---	---	7.0	6.9
2	7.2	6.9	7.5	7.3	---	---	7.1	7.0	---	---	7.2	6.9
3	7.1	7.1	7.4	7.3	---	---	7.2	7.0	---	---	7.0	6.9
4	7.2	7.1	8.4	7.2	7.1	7.0	7.8	7.1	8.8	7.3	7.0	6.9
5	7.3	7.2	7.6	7.3	7.1	7.1	---	---	8.1	7.2	7.0	6.8
6	7.3	7.3	7.4	7.2	7.1	7.0	---	---	7.6	7.2	7.1	6.9
7	7.3	7.3	7.4	7.2	7.2	7.1	---	---	7.6	7.3	7.5	7.0
8	7.3	7.3	7.6	7.4	7.1	7.0	7.4	7.0	7.7	7.3	7.6	7.0
9	7.3	7.3	7.5	7.4	7.2	7.1	7.3	7.1	7.7	7.2	6.9	6.7
10	7.3	7.3	7.5	7.4	7.2	7.1	7.6	7.0	7.9	7.3	6.9	6.7
11	7.4	7.3	7.5	7.4	7.2	7.1	7.4	7.0	7.8	7.2	7.2	6.8
12	7.4	7.3	7.5	7.4	7.2	7.1	8.2	7.1	7.5	7.1	7.1	7.0
13	7.4	7.4	7.5	7.4	7.1	7.0	8.5	7.2	7.3	7.1	7.3	7.0
14	7.4	7.4	7.4	7.2	8.0	7.1	7.2	6.9	7.6	7.2	7.3	6.9
15	7.4	7.3	7.4	7.3	7.5	7.1	7.6	7.0	7.4	7.2	7.1	7.0
16	7.4	7.4	7.3	7.2	7.2	7.1	7.5	7.1	7.5	7.2	7.0	7.0
17	7.4	7.3	7.4	7.2	7.4	7.1	7.4	7.0	7.9	7.1	7.2	7.0
18	7.4	7.3	7.4	7.3	7.5	7.2	7.2	7.0	7.3	7.2	7.3	7.0
19	7.5	7.3	7.4	7.3	7.4	7.2	7.3	7.0	7.4	7.2	7.2	7.0
20	7.4	7.3	7.4	7.3	7.4	7.2	8.0	7.1	7.4	7.2	7.3	7.1
21	7.3	7.3	7.6	7.4	7.7	7.1	8.2	7.3	7.4	7.3	7.3	7.2
22	7.3	7.3	7.5	7.3	8.4	7.2	7.5	7.1	7.5	7.3	7.4	7.1
23	7.4	7.3	7.5	7.3	7.8	7.1	7.5	7.1	7.6	7.2	7.2	7.1
24	7.3	7.3	7.9	7.3	7.4	7.1	7.5	7.2	8.0	7.1	7.2	7.1
25	7.4	7.3	9.1	7.5	7.5	7.1	---	---	8.3	7.2	7.4	7.1
26	7.4	7.3	8.4	7.3	7.3	7.1	---	---	7.4	7.1	7.3	7.1
27	7.5	7.3	7.3	7.2	7.2	7.0	---	---	7.4	7.1	7.2	7.0
28	7.5	7.3	7.3	6.8	7.2	7.0	---	---	7.6	7.2	7.5	7.0
29	7.5	7.3	6.9	6.8	8.5	7.0	---	---	7.4	7.2	7.3	7.0
30	7.5	7.3	7.0	6.8	8.5	7.2	---	---	7.3	7.1	7.0	6.9
31	---	---	7.0	6.8	---	---	---	---	7.1	6.9	---	---
MONTH	7.5	6.9	9.1	6.8	8.5	6.9	8.5	6.9	8.8	6.9	7.6	6.7
YEAR	9.1	6.7										

02397530 COOSA RIVER NEAR COOSA, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.5	20.5	16.5	15.5	12.0	10.5	10.5	8.5	11.5	10.0	12.5	12.0
2	22.5	20.0	18.5	16.0	11.5	10.0	10.5	8.5	11.0	8.5	13.5	11.5
3	21.5	20.5	18.0	16.5	10.5	10.0	9.5	7.5	9.0	7.0	14.5	12.5
4	21.5	21.0	19.0	17.0	12.0	10.0	9.5	8.0	8.0	6.5	13.5	13.0
5	22.5	21.0	17.5	16.0	12.5	11.0	8.0	7.0	7.0	6.0	13.5	12.0
6	23.5	21.5	17.0	15.5	13.0	11.5	9.5	7.0	8.0	6.5	12.5	11.0
7	22.5	21.0	19.0	16.0	13.5	11.5	8.5	7.0	7.5	7.0	12.0	10.5
8	23.0	21.0	18.0	16.0	13.5	12.0	8.0	6.5	9.0	6.5	13.5	11.0
9	23.0	22.0	17.0	16.0	13.0	12.0	8.0	6.5	8.5	6.5	13.5	11.0
10	24.0	22.0	17.5	16.0	14.0	12.0	8.0	6.0	9.5	7.5	14.0	11.5
11	22.0	21.0	16.5	15.5	13.5	12.5	7.5	6.0	9.0	7.0	14.5	11.5
12	23.0	21.0	19.0	16.0	13.5	12.0	7.0	6.0	7.5	6.5	14.0	11.0
13	23.0	20.5	18.5	16.5	12.5	11.5	10.5	6.0	7.0	6.0	13.5	11.5
14	22.5	20.5	17.5	16.5	11.5	10.0	6.5	4.5	7.0	5.5	14.5	12.0
15	24.0	21.5	17.0	16.5	11.0	10.0	7.5	4.5	7.0	6.0	14.5	11.5
16	23.0	21.5	17.5	16.5	11.0	10.5	7.5	5.0	8.5	7.0	14.5	12.0
17	22.0	20.5	17.0	16.0	11.0	9.5	10.0	7.5	10.0	9.0	16.0	12.5
18	21.5	20.5	17.5	15.5	10.5	9.5	9.0	7.0	11.5	10.0	15.0	14.0
19	23.0	21.5	15.0	14.5	10.0	9.5	9.0	7.0	12.5	11.5	14.5	13.0
20	22.5	21.0	16.0	14.5	9.5	9.0	9.0	8.0	13.0	11.5	14.5	12.0
21	22.5	20.5	15.5	14.0	10.0	8.5	10.0	7.0	13.5	12.0	13.5	12.0
22	23.0	20.5	14.0	13.0	8.5	8.0	8.0	6.5	12.5	11.5	13.0	12.0
23	20.5	19.0	13.0	12.0	11.5	8.0	8.5	7.5	12.5	11.0	13.5	12.0
24	19.0	18.5	12.5	12.0	10.5	8.0	10.0	7.5	13.0	11.0	15.5	12.0
25	19.0	18.0	13.0	12.0	9.0	8.0	9.5	7.0	13.0	11.5	16.0	12.5
26	19.0	17.5	12.5	11.5	9.0	7.5	9.0	7.5	12.0	10.5	17.0	13.0
27	19.5	18.0	12.5	11.0	10.0	8.0	10.5	8.5	12.0	10.5	17.5	13.5
28	18.5	17.5	12.0	11.0	10.5	8.5	11.5	10.0	13.0	11.5	18.5	14.5
29	19.0	16.5	13.0	11.5	9.5	8.0	12.5	11.5	---	---	18.0	15.5
30	17.0	16.5	11.5	10.5	9.5	8.0	12.0	11.0	---	---	19.0	16.5
31	17.0	16.0	---	---	9.5	8.0	12.5	11.0	---	---	18.5	16.0
MONTH	24.0	16.0	19.0	10.5	14.0	7.5	12.5	4.5	13.5	5.5	19.0	10.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.0	16.5	23.5	22.0	23.0	21.5	30.0	29.0	---	---	27.0	25.0
2	18.5	16.0	23.0	20.5	22.5	22.0	29.0	28.0	---	---	29.0	26.0
3	18.0	16.5	23.0	20.5	---	---	29.5	28.0	---	---	27.0	26.5
4	19.0	17.5	25.0	20.5	23.0	22.5	30.5	28.0	29.5	25.5	28.0	26.5
5	18.5	17.5	23.5	21.5	23.5	22.5	---	---	---	---	28.5	26.5
6	18.5	17.0	23.5	22.5	23.0	22.5	---	---	---	---	30.0	27.0
7	18.0	17.0	23.5	22.5	23.0	22.5	---	---	---	---	29.0	26.5
8	18.0	17.0	24.0	22.5	24.5	23.0	30.5	28.0	---	---	28.5	26.5
9	17.5	17.0	24.0	22.0	25.0	24.0	30.0	28.5	---	---	27.0	26.0
10	19.0	17.0	22.5	21.5	25.0	24.5	32.0	29.0	---	---	29.0	26.5
11	20.0	17.5	21.5	20.0	25.0	24.0	32.0	29.0	---	---	28.0	26.0
12	20.5	18.5	22.5	19.5	26.0	24.0	32.5	29.5	---	---	28.5	26.0
13	21.5	19.0	23.0	19.5	25.5	24.0	33.0	30.5	---	---	29.0	26.0
14	23.0	20.5	22.5	20.0	28.5	25.0	31.0	29.5	---	---	29.5	27.0
15	22.5	21.0	20.0	19.5	29.0	26.5	32.5	30.0	---	---	27.5	26.5
16	22.0	21.5	20.0	19.0	29.0	28.0	33.0	30.0	---	---	29.0	27.5
17	22.0	21.0	20.5	19.5	29.0	28.0	31.5	29.5	---	---	27.0	25.5
18	23.0	21.0	24.5	19.5	30.0	27.5	33.5	29.0	---	---	26.0	25.0
19	22.5	21.0	21.0	20.0	28.0	27.0	33.5	30.0	---	---	25.5	25.0
20	22.0	20.5	20.5	19.0	29.5	27.0	33.0	30.5	---	---	26.0	24.0
21	21.5	20.5	22.5	19.0	31.5	27.5	32.5	30.0	26.5	26.0	26.0	23.5
22	22.0	21.5	22.0	20.0	31.0	28.5	32.5	30.0	27.0	25.0	25.5	23.0
23	23.0	21.0	24.5	20.5	30.0	29.0	33.5	30.5	29.0	25.0	24.5	23.0
24	23.0	20.5	26.5	21.5	33.0	29.5	34.0	30.5	29.0	25.5	26.0	23.0
25	24.0	21.0	27.5	23.0	32.0	29.0	---	---	30.0	27.0	26.0	22.5
26	24.0	21.0	24.5	22.5	30.5	28.0	---	---	28.5	27.0	26.5	23.5
27	25.5	21.0	24.5	22.0	30.0	28.0	---	---	29.5	27.5	27.0	24.0
28	25.0	21.0	22.5	20.0	30.0	27.5	---	---	29.0	27.5	26.5	24.0
29	23.0	21.5	21.0	20.0	31.0	28.0	---	---	29.5	28.0	25.5	24.0
30	24.5	21.5	22.5	21.0	30.5	28.0	---	---	28.5	26.0	28.5	25.0
31	---	---	22.5	21.5	---	---	---	---	27.5	25.0	---	---
MONTH	25.5	16.0	27.5	19.0	33.0	21.5	34.0	28.0	30.0	25.0	30.0	22.5
YEAR	34.0	4.5										

02397530 COOSA RIVER NEAR COOSA, GA.—Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.3	6.0	7.7	7.2	9.8	9.6	10.5	9.0	10.1	9.6	10.2	9.8
2	7.0	6.7	7.8	7.5	9.6	9.4	10.2	9.6	10.3	10.0	10.0	9.3
3	6.9	6.7	8.7	7.5	10.1	9.6	10.1	9.9	10.3	9.8	9.2	8.9
4	6.8	6.5	7.7	7.5	10.0	9.4	10.2	10.1	10.8	10.2	9.1	8.8
5	6.5	6.2	7.7	7.2	9.8	9.4	10.4	10.1	11.0	10.9	9.5	8.9
6	7.1	6.2	8.0	7.6	9.7	9.6	10.8	10.3	11.2	10.9	9.6	9.2
7	7.4	6.4	8.0	7.2	9.8	9.5	11.5	10.9	11.2	11.1	9.7	9.6
8	7.2	6.0	7.6	7.4	9.5	9.2	11.0	10.6	11.3	11.1	9.7	9.6
9	6.5	6.0	7.9	7.5	9.4	9.2	11.1	10.9	11.2	10.9	9.8	9.5
10	8.2	6.0	7.9	7.4	9.4	8.7	10.9	10.8	11.0	10.6	9.9	9.8
11	8.1	7.1	7.7	7.3	9.0	8.7	10.9	10.7	10.9	10.0	10.1	9.8
12	7.7	6.0	7.3	6.5	9.2	8.6	10.9	10.5	10.3	9.9	10.1	10.0
13	7.6	6.7	6.9	6.5	9.7	9.1	11.1	10.1	10.9	10.3	10.1	9.9
14	7.8	6.1	7.5	6.6	9.6	9.4	12.9	11.4	11.5	11.0	10.0	9.6
15	6.7	5.9	7.6	7.1	9.6	9.3	13.1	12.0	11.5	11.1	10.0	9.7
16	6.5	5.8	8.1	7.4	9.4	9.0	12.4	11.0	11.1	10.8	9.9	9.6
17	7.7	6.1	7.8	7.1	10.0	9.0	11.3	10.3	10.8	10.5	9.6	9.2
18	7.8	7.1	7.3	6.7	10.0	9.6	11.5	11.1	10.5	9.7	9.2	8.9
19	7.3	6.6	7.8	6.8	9.9	9.5	11.6	11.0	9.7	9.3	9.3	9.0
20	6.9	6.2	7.8	7.4	10.0	9.9	11.3	10.7	9.4	9.0	9.7	9.0
21	6.5	4.7	8.1	7.4	10.0	9.9	11.1	10.4	9.0	8.9	9.5	9.1
22	6.1	4.7	8.5	8.1	9.9	9.8	11.3	10.9	9.6	9.1	9.6	9.2
23	6.3	5.3	8.8	8.6	10.1	9.8	11.3	11.1	9.6	9.2	9.3	8.7
24	6.9	6.3	9.1	8.8	11.2	10.1	11.3	11.1	9.5	9.4	9.5	8.7
25	7.3	6.8	9.0	8.6	10.9	10.6	11.3	10.9	10.0	9.5	10.0	9.3
26	7.2	6.9	9.4	8.8	10.7	10.3	11.3	10.6	10.3	10.0	10.3	9.8
27	7.1	6.6	9.2	8.9	10.4	9.9	11.3	10.6	10.5	9.8	10.2	9.9
28	6.8	6.3	9.3	9.1	10.5	9.9	11.3	10.2	10.2	9.8	9.9	9.5
29	7.2	6.4	9.1	9.0	10.6	10.2	10.3	10.0	---	---	9.5	8.8
30	7.6	7.2	9.5	9.0	10.7	10.1	10.0	9.8	---	---	9.0	8.4
31	7.4	7.2	---	---	10.1	8.7	10.0	9.8	---	---	8.0	7.4
MONTH	8.2	4.7	9.5	6.5	11.2	8.6	13.1	9.0	11.5	8.9	10.3	7.4

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.8	7.5	6.2	5.6	6.2	5.7	6.9	4.1	---	---	4.4	3.5
2	7.6	7.4	7.9	6.2	5.7	5.6	4.7	3.7	---	---	4.2	3.0
3	7.4	7.2	7.4	6.4	---	---	5.4	3.5	---	---	4.3	3.8
4	7.4	7.1	10.4	6.2	6.3	5.8	8.3	4.6	9.8	4.8	4.6	4.0
5	7.7	7.5	8.2	6.6	6.4	5.6	---	---	7.7	4.2	4.4	4.0
6	7.7	7.4	6.8	4.9	6.4	5.8	---	---	6.4	4.0	5.5	4.2
7	7.8	7.6	6.0	5.0	6.4	5.6	---	---	6.5	4.3	7.1	4.7
8	7.9	7.6	5.7	4.7	5.6	5.4	6.5	4.0	6.5	3.9	7.3	5.3
9	8.0	7.9	6.1	5.2	5.8	5.4	5.7	4.1	6.3	3.9	5.4	3.8
10	8.2	8.0	6.6	5.6	5.8	5.5	7.2	4.7	7.2	4.3	4.5	3.9
11	8.1	7.8	6.2	5.6	5.8	5.5	6.6	4.8	6.9	3.8	5.4	4.3
12	7.9	7.5	6.7	5.8	6.1	5.6	8.1	5.1	6.1	3.5	5.4	4.8
13	7.8	7.1	6.3	5.8	6.0	5.5	8.1	5.8	4.8	3.4	6.6	5.0
14	7.6	6.8	7.0	5.7	9.1	5.8	5.7	4.0	6.4	3.5	6.5	4.3
15	7.4	6.8	7.2	6.2	7.7	5.3	6.0	3.5	5.5	4.0	5.7	4.6
16	7.2	6.7	6.5	5.9	5.8	4.6	5.2	3.3	6.2	4.1	4.5	4.1
17	7.3	6.6	6.8	5.6	5.6	4.3	5.2	3.4	7.7	4.1	5.1	4.3
18	7.3	6.5	6.7	6.0	6.2	4.5	4.9	2.5	5.0	4.4	5.5	4.7
19	7.7	6.5	6.7	6.0	6.0	4.7	5.1	2.9	4.9	3.7	5.5	4.3
20	7.0	6.6	6.3	5.8	6.0	4.8	7.4	3.7	4.9	3.5	5.3	4.7
21	7.0	6.6	7.1	6.3	7.1	4.9	7.6	4.3	4.5	4.0	6.3	5.1
22	6.8	6.2	7.0	6.0	9.0	5.2	5.3	3.1	5.3	3.9	6.7	5.1
23	6.7	6.2	6.5	6.0	7.4	4.4	5.0	2.7	6.0	4.6	6.2	5.2
24	6.8	6.3	7.9	5.8	5.6	3.6	4.5	2.0	8.3	4.5	6.1	5.3
25	7.3	6.4	12.9	7.0	5.6	4.0	---	---	8.0	5.4	6.5	5.4
26	6.7	6.0	9.3	5.3	5.6	4.2	---	---	6.6	4.0	6.6	5.7
27	8.0	6.3	5.3	4.3	5.6	4.3	---	---	4.8	3.8	6.1	5.8
28	8.0	6.5	5.9	5.2	5.1	4.3	---	---	6.1	4.2	7.6	5.7
29	7.3	5.9	5.9	5.7	9.1	4.1	---	---	5.3	4.4	7.5	5.6
30	6.8	5.7	5.9	5.4	9.2	5.2	---	---	5.8	4.7	6.1	5.4
31	---	---	6.3	5.6	---	---	---	---	5.0	4.1	---	---
MONTH	8.2	5.7	12.9	4.3	9.2	3.6	8.3	2.0	9.8	3.4	7.6	3.0
YEAR	13.1	2.0										

02397810 DUCK CREEK NEAR CENTER POST, GA.

LOCATION.--Lat 34°37'08", long 85°20'49", Walker County, Hydrologic Unit 03150105, at bridge on State Route 337, 1 mi (1.6 km) north of Center Post and 2.4 mi (3.9 km) upstream of Chattooga Creek.
DRAINAGE AREA.--32.4 mi^2 (83.9 km^2).
PERIOD OF DAILY RECORD.--April 1979 to April 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
APR								
17...	1200	33	180	185	7.9	7.8	16.0	9.0

DATE	ALKALINITY FIELD (MG/L AS CACO3)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
APR							
17...	107	86	3.9	101	9.0	5	.45

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
APR						
17...	230	200	30	30	0	30

02397830 HARRISBURG CREEK NEAR HAWKINS, GA.

LOCATION.--Lat 34°36'02", long 85°23'21", Walker County, Hydrologic Unit 03150105, at bridge on county road, 0.7 mi (1.1 km) west of Hawkins, 0.8 mi (1.3 km) upstream of Spring Creek, and 11 mi (17.7 km) southwest of LaFayette.
DRAINAGE AREA.--13.3 mi^2 (34.4 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 730 ft (223 m), from topographic map.
REMARKS.--Records good.
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.89 ft (2.710 m) Mar. 21, 1980 (discharge not determined); minimum discharge, no flow at times most years.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft^3/s (12.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 10	1800	466	13.2	6.33	1.929
Feb. 18	1530	606	17.2	6.69	2.039
Mar. 30	0745	*642	18.2	6.78	2.067

Minimum discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	2.6	.00	1.7	7.2	156	.00	88	.00	.00	.30
2	.00	.00	1.2	.00	119	5.1	119	.00	83	.00	.00	.00
3	.00	.00	.39	.00	67	3.3	74	.00	57	.00	.00	.00
4	.00	.00	.00	.00	40	6.2	48	.00	38	.00	.00	2.7
5	.00	.00	.00	.00	25	29	116	.00	36	.00	.00	2.1
6	.00	.00	.00	.00	17	35	87	.00	27	.00	.00	.34
7	.00	.00	.00	.00	13	28	57	.00	86	.00	.00	.01
8	.00	.00	.00	.00	9.1	21	40	.00	123	.00	.00	.00
9	.00	.00	.00	.00	5.0	16	31	.00	60	.00	.00	.00
10	.00	.00	.00	.00	161	12	23	.00	32	.00	.00	.00
11	.00	.00	.00	.00	227	8.7	17	.00	19	.00	.00	.00
12	.00	.00	.00	.00	108	6.0	14	.00	12	.00	.00	.00
13	.00	.00	.00	.00	61	4.6	10	.00	5.8	.00	.00	.00
14	.00	.00	.00	.00	44	2.9	7.1	.00	2.6	.00	.00	.00
15	.00	.38	.00	.00	28	1.9	5.0	.00	.72	.00	.00	.00
16	.00	.22	.00	.00	21	2.1	3.3	.00	.22	.00	.00	.00
17	.00	.00	.00	.00	54	1.1	2.6	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	371	2.0	1.7	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	382	2.2	.88	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	161	1.5	.40	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	91	.84	.36	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	61	5.3	.05	.00	.00	.00	.00	.00
23	.00	5.0	.00	.00	45	19	.26	.00	.00	.00	.00	.00
24	.00	39	.00	.00	32	22	1.0	.00	.00	.00	.00	.00
25	.00	27	.00	.00	24	18	.11	.00	.00	.00	.00	.00
26	.00	13	.00	.00	18	14	.00	.00	.00	.00	.00	.00
27	.00	22	.00	.00	13	10	.00	.00	.00	.00	.00	.00
28	.00	28	.00	.00	9.8	6.6	.00	.00	.00	.00	.00	.00
29	.00	17	.00	.00	---	5.1	.00	.00	.00	.00	.00	.00
30	.00	6.8	.00	.00	---	334	.00	.00	.00	.00	39	.00
31	.00	---	.00	.00	---	155	---	7.0	---	.00	4.9	---
TOTAL	.00	158.40	4.19	.00	2208.6	785.64	814.76	7.00	670.34	.00	43.90	5.45
MEAN	.000	5.28	.14	.000	78.9	25.3	27.2	.23	22.3	.000	1.42	.18
MAX	.00	39	2.6	.00	382	334	156	7.0	123	.00	39	2.7
MIN	.00	.00	.00	.00	1.7	.84	.00	.00	.00	.00	.00	.00
CFSM	.000	.40	.01	.000	5.93	1.90	2.05	.02	1.68	.000	.11	.01
IN.	.00	.44	.01	.00	6.18	2.20	2.28	.02	1.87	.00	.12	.02

CAL YR 1980 TOTAL 10865.23 MEAN 29.7 MAX 710 MIN .00 CFSM 2.23 IN 30.39
WTR YR 1981 TOTAL 4698.28 MEAN 12.9 MAX 382 MIN .00 CFSM .97 IN 13.14

02397830 HARRISBURG CREEK NEAR HAWKINS, GA.

WATER-QUALITY RECORDS

PERIOD OF RECORD.—April 1979 to August 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
NOV								
24...	1245	45	23	23	5.7	6.2	11.0	11.1
FEB								
04...	1100	39	20	20	5.9	6.5	4.0	12.6
MAR								
05...	1500	35	22	20	6.6	6.5	10.0	--
APR								
17...	1000	2.6	20	--	6.2	6.2	14.0	8.7
JUN								
10...	1100	30	20	20	6.5	6.6	19.0	6.2
AUG								
31...	0930	5.9	34	35	--	7.0	21.0	8.1

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
NOV												
24...	--	--	--	--	--	--	--	--	--	2	--	4.8
FEB												
04...	--	--	--	.1	5.0	--	--	--	--	3	3.0	3.2
MAR												
05...	--	--	--	.1	5.0	--	--	--	--	2	5.0	2.8
APR												
17...	--	--	--	.1	5.0	--	--	--	--	3	2.0	2.4
JUN												
10...	--	--	--	.1	5.0	--	--	--	--	3	8.0	2.1
AUG												
31...	8	5	.00	.1	5.0	2.1	.6	.9	1.9	3	--	3.9

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)
NOV												
24...	--	--	--	24	2.9	--	--	--	--	--	--	--
FEB												
04...	--	--	--	16	1.7	--	--	--	--	--	--	--
MAR												
05...	--	--	--	16	1.5	--	--	--	--	--	--	--
APR												
17...	--	--	--	20	.14	--	--	--	--	--	--	--
JUN												
10...	--	--	--	20	1.6	--	--	--	--	--	--	--
AUG												
31...	4.2	<.1	4.2	36	.57	.11	.060	1	100	2	10	3

02397830 HARRISBURG CREEK NEAR HAWKINS, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SELE-NIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
NOV												
24...	220	130	90	--	--	20	0	20	--	--	--	--
FEB												
04...	180	150	30	--	--	20	10	10	--	--	--	--
MAR												
05...	160	150	10	--	--	10	0	10	--	--	--	--
APR												
17...	60	50	10	--	--	10	0	10	--	--	--	--
JUN												
10...	180	120	60	--	--	10	0	10	--	--	--	--
AUG												
31...	420	160	260	12	.1	30	--	<10	<1	<1	10	<.01

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
AUG												
31...	<1	1	10	10	4	9000	<10	860	<.01	<1	26	1.00

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV					
24...	1245	45	2	.24	--
FEB					
04...	1100	39	2	.21	--
10...	1650	420	146	166	82
10...	1720	455	131	161	80
11...	1130	227	12	7.4	--
MAR					
05...	1500	35	4	.38	--
APR					
17...	1000	2.6	2	.01	--
JUN					
10...	1100	30	3	.24	--
AUG					
31...	0930	5.9	1	.02	--

02397860 TELOGA CREEK AT NEAL CROSSING, GA.

LOCATION.--Lat 34°33'16", long 85°25'08", Chattooga County, Hydrologic Unit 03150105, at bridge on county road 0.2 mi (0.3 km) west of Neal Crossing and 5.0 mi (8.0 km) southwest of Center Post.
DRAINAGE AREA.--3.39 mi^2 (8.78 km^2).
PERIOD OF RECORD.--September 1976, April 1977, April 1979 to April 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
16...	1630	3.6	69	66	7.1	7.4	15.0	10.0

DATE	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
APR							
16...	34	26	2.9	40	.39	3	.03

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR						
16...	110	90	20	10	0	10

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.

LOCATION.—Lat 34 28'03", long 85 20'19", Chattooga County, Hydrologic Unit 03150105, on left bank 600 ft (183 m) downstream from bridge on U.S. Highway 27, 1 mi (1.6 km) southeast of Summerville, and 4 mi (6.4 km) upstream from Raccoon Creek.
DRAINAGE AREA.—192 mi² (497 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—March 1937 to current year.
REVISED RECORDS.—WRD GA-80-1: Drainage area.
GAGE.—Water-stage recorder. Datum of gage is 613.47 ft (186.986 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Nov. 12, 1937, nonrecording gage at same site and datum.
REMARKS.—Records good.
AVERAGE DISCHARGE.—44 years, 359 ft³/s (10.2 m³/s), 25.39 in/yr (645 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 24,500 ft³/s (694 m³/s) Mar. 29, 1951, gage height, 21.0 ft (6.40 m); minimum daily, 38 ft³/s (1.08 m³/s) Oct. 17, 1937, Nov. 9, 1939.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 3,000 ft³/s (85.0 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Mar. 30	2200	*3940	112	13.35	4.069

Minimum discharge, 73 ft³/s (2.07 m³/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245	96	173	104	117	294	1320	155	417	121	88	138
2	150	94	161	102	701	269	1130	146	510	140	87	136
3	126	95	151	102	528	239	817	139	344	125	87	141
4	117	97	144	102	370	245	658	139	425	121	83	126
5	109	95	138	100	296	477	1320	136	481	119	82	247
6	107	93	133	99	242	463	955	133	332	119	80	199
7	106	93	130	106	216	385	724	130	371	116	105	162
8	103	92	127	108	200	339	605	125	686	113	94	140
9	100	90	134	103	177	302	529	122	449	110	83	128
10	97	89	183	101	832	274	494	125	336	109	84	120
11	94	88	176	100	2320	254	427	183	269	104	93	112
12	91	87	157	97	974	234	380	140	238	104	134	106
13	93	88	149	96	675	221	346	130	241	103	102	101
14	91	89	147	96	543	208	317	125	200	101	93	98
15	90	204	134	96	470	196	281	124	180	99	86	101
16	90	224	134	96	390	195	257	121	168	98	84	102
17	91	148	130	94	650	184	247	120	158	117	86	97
18	110	139	127	93	1180	191	244	123	152	131	130	90
19	120	129	122	93	2400	205	230	144	144	103	165	88
20	103	123	123	95	1590	179	220	149	141	98	160	87
21	96	117	114	120	933	168	221	125	135	91	153	88
22	94	111	111	141	725	193	201	119	132	88	135	85
23	92	136	110	128	626	288	204	115	129	87	117	84
24	91	388	114	126	517	288	225	111	126	99	106	81
25	92	326	111	119	438	261	196	111	131	198	101	82
26	89	227	110	116	390	237	179	112	274	111	95	79
27	91	243	110	116	350	215	170	117	137	113	91	78
28	122	292	108	117	314	198	163	113	127	97	86	79
29	119	237	108	113	---	186	171	110	124	96	85	77
30	104	197	106	112	---	2340	167	108	123	97	459	76
31	99	---	105	109	---	1980	---	110	---	91	301	---
TOTAL	3322	4527	4080	3300	19164	11708	13398	3960	7680	3419	3735	3328
MEAN	107	151	132	106	684	378	447	128	256	110	120	111
MAX	245	388	183	141	2400	2340	1320	183	686	198	459	247
MIN	89	87	105	93	117	168	163	108	123	87	80	76
CFSM	.56	.79	.69	.55	3.56	1.97	2.33	.67	1.33	.57	.63	.58
IN.	.64	.88	.79	.64	3.71	2.27	2.60	.77	1.49	.66	.72	.64

CAL YR 1980 TOTAL 176600 MEAN 483 MAX 8350 MIN 79 CFSM 2.52 IN 34.22
WTR YR 1981 TOTAL 81621 MEAN 224 MAX 2400 MIN 76 CFSM 1.17 IN 15.81

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
28...	1330	116	7.9	7.9	17.5	14.5	7.8
NOV							
25...	1000	330	7.6	7.9	9.5	10.0	9.0
DEC							
09...	1410	132	7.7	7.8	19.0	12.0	8.8
JAN							
28...	1230	118	8.0	8.2	12.0	9.5	9.2
FEB							
26...	1330	388	--	7.9	27.5	11.5	8.5
MAR							
25...	1300	260	7.7	8.1	22.0	11.5	10.3
APR							
29...	1230	175	7.6	7.9	25.0	18.5	6.5
MAY							
26...	1710	114	7.4	7.9	23.0	19.0	5.3
JUN							
23...	1615	129	--	8.0	35.0	24.5	7.2
JUL							
28...	0900	98	7.4	7.7	30.0	24.0	6.0
AUG							
26...	1115	96	7.8	8.0	32.5	24.0	7.1
SEP							
29...	1530	77	7.5	7.9	33.0	20.0	7.4

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
28...	473	4	1.5	90	108	186	.25	.040	.240	7.0
NOV										
25...	286	10	1.2	7500	92	116	.46	.120	.120	9.0
DEC										
09...	370	2	1.1	250	98	144	.52	.060	.140	5.0
JAN										
28...	382	5	.9	40	94	154	.40	.040	.250	3.5
FEB										
26...	249	6	1.0	40	77	94	.57	.020	.150	1.0
MAR										
25...	294	10	1.2	70	94	105	.57	.050	.100	1.5
APR										
29...	359	7	.8	750	110	132	.60	.100	.170	3.0
MAY										
26...	389	5	1.9	90	114	152	.78	.080	.300	6.0
JUN										
23...	377	5	1.1	40	108	141	.61	.040	.210	2.5
JUL										
28...	402	16	1.3	430	102	137	.87	.100	.320	3.5
AUG										
26...	411	8	1.6	430	116	153	.51	.090	.380	1.5
SEP										
29...	497	3	.9	430	136	169	.50	.060	.260	2.0

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.

LOCATION.—Lat 34°20'08", long 85°26'43", Chattooga County, Hydrologic Unit 03150105, at bridge on Holland-Chattoogaville Road, 0.4 mi (0.6 km) downstream from Hinton Creek, and 0.7 mi (1.1 km) south of Chattoogaville.
DRAINAGE AREA.—281 mi^2 (728 km^2).
PERIOD OF RECORD.—August 1974 to current year.
REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
28...	1415	295	7.9	8.1	18.0	13.5	8.6
NOV							
25...	1100	507	7.7	7.9	10.5	10.5	9.3
DEC							
09...	1230	192	7.8	7.9	19.0	11.5	10.2
JAN							
28...	1330	164	8.5	8.9	13.0	9.0	10.6
FEB							
26...	1430	530	--	7.7	27.0	12.0	8.1
MAR							
25...	1400	355	--	8.0	23.5	12.0	10.4
APR							
29...	1415	230	7.3	7.8	27.0	20.0	5.8
MAY							
27...	1245	176	7.6	7.8	26.5	19.5	6.4
JUN							
24...	1220	142	7.8	7.9	36.0	24.5	6.5
JUL							
28...	0945	129	7.5	7.7	34.0	25.0	5.8
AUG							
26...	1215	116	8.0	8.0	37.0	23.0	7.4
SEP							
29...	1630	108	--	7.9	28.0	20.0	7.3

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)
OCT							
28...	375	10	--	1.6	930	116	143
NOV							
25...	266	8	--	1.4	2300	96	111
DEC							
09...	287	2	--	.9	<30	104	121
JAN							
28...	370	6	--	1.3	<30	94	157
FEB							
26...	233	8	--	1.1	230	82	91
MAR							
25...	280	10	--	1.5	930	98	111
APR							
29...	324	7	--	1.5	1500	112	125
MAY							
27...	308	20	--	1.6	430	106	128
JUN							
24...	308	10	--	.5	40	132	118
JUL							
28...	274	13	8	1.6	310	112	117
AUG							
26...	281	10	1	1.4	90	112	118
SEP							
29...	442	6	8	1.3	40	124	162

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT						
28...	6	.35	<.020	--	.200	3.0
NOV						
25...	16	.52	.080	--	.150	3.0
DEC						
09...	4	.44	<.020	--	.080	4.0
JAN						
28...	1	.40	.050	--	.320	4.0
FEB						
26...	14	.57	.070	--	.180	1.0
MAR						
25...	9	.65	.090	--	.160	2.0
APR						
29...	13	.68	.080	--	.280	2.0
MAY						
27...	30	.64	.060	--	.260	4.0
JUN						
24...	13	.60	.040	--	.220	<1.0
JUL						
28...	21	.68	.050	.30	.160	2.0
AUG						
26...	7	.57	.160	.53	.300	1.5
SEP						
29...	<1	.60	.130	.40	.480	3.0

02398580 MIDDLE FORK LITTLE RIVER NEAR VALLEY HEAD, ALA.

LOCATION.—Lat 34°32'18", long 85°31'33", DeKalb County, Hydrologic Unit 03150105, at bridge on State Route 58, 1.5 mi (2.4 km) west of Cloudland, Ga., 5.0 mi (8.0 km) east of Mentone, and 7.0 mi (11.3 km) east of Valley Head.
DRAINAGE AREA.—17.0 mi2 (44.0 km2).
PERIOD OF RECORD.—September 1976, April 1977, April 1979 to October 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR 13...	1230	25	47	47	5.7	6.3	15.0	10.0
AUG 31...	1330	72	29	31	--	7.0	19.5	7.7

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)
APR 13...	--	--	--	.1	5.0	--	--	--	--	2
AUG 31...	6	5	3.0	.1	5.0	1.2	.8	1.8	.8	1

DATE	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	SEDI-MENT, SUS-PENDED (MG/L)
APR 13...	1.0	14	--	--	--	40	2.7	--	--	3
AUG 31...	3.0	8.0	1.2	<.1	4.7	24	4.7	.07	.020	37

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
APR 13...	.20	--	--	--	--	--	110	80	30
AUG 31...	7.2	1	100	2	10	5	350	260	90

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SELE-NIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
APR 13...	--	--	500	30	470	--	--	--	--
AUG 31...	10	<.1	190	0	210	<1	6	30	<.01

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
AUG 31...	<1	<1	3	10	1	1400	<10	180	<.01	<1	<10	6.00

02398580 MIDDLE FORK LITTLE RIVER NEAR VALLEY HEAD, ALA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT								
19...	1200	.81	100	98	6.9	6.4	13.5	4.8

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKALINITY FIELD (MG/L AS CACO3)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SEDIMENT, SUSPENDED (MG/L)
OCT								
19...	.2	10	5	7.0	34	73	.16	5

DATE	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT							
19...	.01	440	180	260	750	0	770

02398582 BRUSH CREEK NEAR MENTONE, ALA.

LOCATION.—Lat 34°32'07", long 85°31'46", DeKalb County, Hydrologic Unit 03150105, at culvert on county road 0.1 mi (0.2 km) upstream of Middle Fork Little River and 5.0 mi (8.0 km) east of Mentone.

DRAINAGE AREA.—3.44 mi2 (8.91 km2).

PERIOD OF RECORD.—April 1979 to April 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
13...	1330	5.0	40	38	6.8	6.7	17.5	9.9

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)
APR								
13...	.1	5.0	8	17	8.4	28	.38	4

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR							
13...	.05	220	210	10	130	10	120

02398600 GILREATH CREEK NEAR CLOUDLAND, GA.

LOCATION.—Lat 34°34'05", long 85°27'17", Chattooga County, Hydrologic Unit 03150105, at bridge on county road 4.6 mi (7.4 km) north of Cloudland.
DRAINAGE AREA.—3.91 mi2 (10.1 km2).
PERIOD OF RECORD.—September 1976, April 1977, April 1979 to April 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
16...	1500	3.2	23	23	6.1	6.6	15.0	10.0

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)
APR								
16...	.1	5.0	3	4.0	4.6	18	.16	10

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR							
16...	.09	320	220	100	80	10	70

02398620 EAST FORK LITTLE RIVER NEAR CLOUDLAND, GA.

LOCATION.—Lat 34°31'22", long 85°30'20", Chattooga County, Hydrologic Unit 03150105, at bridge on State Route 48, 0.8 mi (1.3 km) northwest of Cloudland and 0.9 mi (1.4 km) from Georgia-Alabama State Line.
DRAINAGE AREA.—12.1 mi^2 (31.13 km^2).
PERIOD OF RECORD.—September 1976, April 1977, April 1979 to October 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
APR								
13...	1430	21	38	38	6.3	6.7	17.0	10.0
AUG								
31...	1130	33	34	34	6.3	6.9	20.5	8.2

DATE	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	HARDNESS NONCARBONATE (MG/L AS CACO3)	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)
APR										
13...	--	--	--	.1	5.0	--	--	--	--	2
AUG										
31...	8	5	4.0	.1	5.0	1.8	.9	.8	.9	3

DATE	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	SEDIMENT, SUSPENDED (MG/L)
APR										
13...	2.0	11	--	--	--	32	1.8	--	--	5
AUG										
31...	4.0	9.2	1.3	<.1	3.9	30	2.7	.11	.030	41

DATE	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
APR									
13...	.28	--	--	--	--	--	160	120	40
AUG									
31...	3.7	1	100	3	10	3	1400	1300	120

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
APR									
13...	--	--	150	10	140	--	--	--	--
AUG									
31...	11	.2	230	30	200	<1	<1	30	<.01

02398620 EAST FORK LITTLE RIVER NEAR CLOUDLAND, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	COAL IN BOTTOM MATERIAL (GM/KG)
AUG												
31...	0	<1	3	10	2	2400	<10	130	<.01	<1	18	7.00

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT								
19...	1045	1.5	85	83	6.4	6.8	13.0	6.8

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKALINITY FIELD (MG/L AS CACO3)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SEDIMENT, SUSPENDED (MG/L)
OCT								
19...	.2	10	10	11	24	58	.23	1

DATE	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
OCT							
19...	.00	290	140	150	90	0	90

02398857 EAST FORK OF WEST FORK LITTLE RIVER NEAR HEAD RIVER, GA.

LOCATION.—Lat 34°38'16", long 85°30'25", Walker County, Hydrologic Unit 03150105, at bridge on county road 2.0 mi (3.2 km) south of Head River.

DRAINAGE AREA.—6.35 mi2 (16.4 km2).

PERIOD OF RECORD.—May 1979 to April 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
15...	1600	7.1	20	17	5.7	6.0	17.5	8.5

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)
APR								
15...	.1	5.0	2	2.0	3.8	18	.35	2

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR							
15...	.04	310	250	60	60	0	60

02398860 LONG BRANCH AT HEAD RIVER, GA.

LOCATION.--Lat 34°39'49", long 85°30'18", Dade County, Hydrologic Unit 03150105, at bridge on county road 0.4 mi (0.6 km) north of Head River.
DRAINAGE AREA.--1.30 mi2 (3.37 km2).
PERIOD OF RECORD.--May 1979 to April 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR 15...	1700	1.5	23	22	6.2	6.1	19.0	8.4

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)
APR 15...	.2	10	3	2.0	4.0	14	.06	1

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR 15...	.00	1100	960	140	100	10	90

02398863 WEST FORK LITTLE RIVER TRIBUTARY NEAR MENTONE, ALA.

LOCATION.—Lat 34°36'04", long 85°32'37", DeKalb County, Hydrologic Unit 03150105, at bridge on county road 0.8 mi (1.3 km) upstream of West Fork Little River and 3 mi (4.8 km) northeast of Mentone.
DRAINAGE AREA.—0.57 mi^2 (1.48 km^2).
PERIOD OF RECORD.—May 1979 to April 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
14...	1545	.63	20	20	5.3	5.8	20.5	7.6

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)
APR							
14...	.2	10	1	9.0	4.9	20	.03

DATE	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR						
14...	4	.01	550	80	60	50

02398865 WEST FORK LITTLE RIVER AT TAYLOR FORD, NEAR VALLEY HEAD, ALA.

LOCATION.—Lat 34°35'11", long 85°33'49", DeKalb County, Hydrologic Unit 03150105, at river ford 2.0 mi (3.2 km) northeast of Mentone and 3.5 mi (5.6 km) northeast of Valley Head.
DRAINAGE AREA.—28.5 mi2 (73.8 km2).
PERIOD OF RECORD.—September 1976, April 1977, April 1979 to April 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN DIS-SOLVED (MG/L)
APR								
13...	1600	48	23	22	5.9	6.4	17.5	10.0

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)
APR								
13...	.1	5.0	2	2.0	3.2	22	2.8	3

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR							
13...	.39	160	150	10	30	0	30

02411800 LITTLE RIVER NEAR BUCHANAN, GA.

LOCATION.—Lat 33°47'51", long 85°07'03", Haralson County, Hydrologic Unit 03150108, on right bank 150 ft (46 m) upstream from county highway bridge, 4.5 mi (7.2 km) east of Buchanan, and 7 mi (11.3 km) upstream from mouth.

DRAINAGE AREA.—20.2 mi^3 (52.3 km^2).

PERIOD OF RECORD.—June 1959 to current year.

REVISED RECORDS.—WRD GA-80-1: Drainage area.

GAGE.—Water-stage recorder. Altitude of gage is 1,110 ft (338 m), from topographic map.

REMARKS.—Records good except those for period of no gage-height record, Apr. 17 to May 27, which are poor.

AVERAGE DISCHARGE.—22 years, 34.1 ft^3/s (0.97 m^3/s), 22.92 in/yr (582 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 3,820 ft^3/s (108 m^3/s) Mar. 14, 1966, gage height, 12.58 ft (3.834 m), from rating curve extended above 2,300 ft^3/s (65.1 m^3/s) on basis of slope-area measurement at gage height, 12.47 ft (3.801 m); minimum, 1.6 ft^3/s (0.045 m^3/s) Oct. 5, 6, 1970.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 500 ft^3/s (14.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	1330	748	21.2	3.92	1.195
Mar. 30	1245	595	16.9	3.30	1.006
May 26	unknown	*1050	29.7	5.38	1.640

Minimum daily discharge, 3.1 ft^3/s (0.088 m^3/s) July 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	19	15	11	12	23	72	12	81	14	5.4	20
2	32	17	15	11	76	23	90	11	61	44	6.0	19
3	19	16	14	11	38	20	50	11	35	21	6.3	12
4	14	17	14	11	24	33	40	10	23	16	5.6	23
5	12	15	14	11	20	51	70	9.8	18	12	4.7	26
6	11	14	14	11	18	32	50	9.6	17	26	4.0	29
7	10	14	14	15	18	26	40	11	25	28	6.3	15
8	9.5	14	13	13	19	23	32	9.6	18	15	7.7	13
9	9.1	14	16	12	15	22	26	9.4	15	14	5.7	10
10	8.8	13	15	12	124	21	21	9.0	14	11	6.4	8.5
11	8.3	13	16	11	414	20	20	15	12	9.5	8.3	7.4
12	7.8	12	15	11	125	19	18	12	16	8.4	9.1	6.8
13	7.6	12	14	10	95	19	18	11	16	7.7	6.6	6.2
14	7.6	12	14	11	61	18	18	10	12	7.2	5.5	5.8
15	7.9	18	13	12	41	18	20	20	10	6.7	4.7	9.1
16	7.9	18	13	11	29	19	30	15	10	6.2	4.3	16
17	8.2	16	13	11	35	18	19	13	9.0	5.8	7.2	9.7
18	34	16	13	11	137	23	18	12	8.5	5.9	21	7.6
19	37	14	12	11	94	23	17	11	8.2	5.4	17	6.7
20	19	13	12	13	61	19	16	50	7.2	4.9	11	6.2
21	15	13	12	18	44	18	15	30	7.0	4.6	12	5.8
22	13	13	12	15	38	28	18	20	6.7	3.7	16	5.4
23	11	14	12	14	35	31	15	17	5.6	3.5	9.4	5.0
24	12	34	12	13	28	25	20	15	25	3.4	7.7	4.8
25	16	22	14	12	24	22	17	14	35	3.2	6.7	4.4
26	13	18	13	12	23	21	15	150	15	3.1	5.9	4.1
27	22	24	12	12	22	20	14	500	10	3.2	5.3	4.0
28	63	21	12	14	21	19	13	134	8.6	3.4	4.5	4.3
29	33	18	12	12	---	19	15	119	7.3	4.3	4.4	3.6
30	28	17	12	12	---	253	13	104	7.0	6.9	35	3.5
31	24	---	11	11	---	104	---	90	---	5.2	16	---
TOTAL	582.7	491	413	375	1691	1030	840	1464.4	543.1	313.2	275.7	301.9
MEAN	18.8	16.4	13.3	12.1	60.4	33.2	28.0	47.2	18.1	10.1	8.89	10.1
MAX	63	34	16	18	414	253	90	500	81	44	35	29
MIN	7.6	12	11	10	12	18	13	9.0	5.6	3.1	4.0	3.5
CFSM	.93	.81	.66	.60	2.99	1.64	1.39	2.34	.90	.50	.44	.50
IN.	1.07	.90	.76	.69	3.11	1.90	1.55	2.70	1.00	.58	.51	.56

CAL YR 1980 TOTAL 13756.1 MEAN 37.6 MAX 447 MIN 3.8 CFSM 1.86 IN 25.33
WTR YR 1981 TOTAL 8321.0 MEAN 22.8 MAX 500 MIN 3.1 CFSM 1.13 IN 15.32

02411930 TALLAPOOSA RIVER BELOW TALLAPOOSA, GA.

LOCATION.—Lat 33°44'27", long 85°20'11", Haralson County, Hydrologic Unit 03150108, at bridge on U.S. Highway 78, 0.4 mi (0.6 km) upstream from Walker Creek, and 2.7 mi (4.3 km) west of Tallapoosa.

DRAINAGE AREA.—272 mi^2 (704 km^2), revised.

PERIOD OF RECORD.—July 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
08...	1315	165	6.9	6.9	28.0	15.0	9.8
DEC							
10...	1820	250	--	7.0	5.5	10.8	10.5
FEB							
03...	1545	550	6.3	6.7	3.0	4.0	11.7
APR							
06...	1630	960	--	6.8	19.0	16.0	9.0
JUN							
03...	1600	405	7.0	6.9	35.0	23.0	7.7
JUL							
09...	1415	290	7.0	7.0	34.5	26.0	6.5
SEP							
02...	1630	550	7.0	6.7	32.0	23.0	7.1

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
08...	36	8	.6	150	12	.06	<.020	.030	1.5
DEC									
10...	38	6	.9	930	16	.08	.060	.020	3.0
FEB									
03...	37	25	1.3	2300	9.0	.16	.030	.060	3.0
APR									
06...	33	20	1.1	130	11	.08	<.020	.040	3.0
JUN									
03...	35	23	1.1	140	11	.18	.050	.040	3.0
JUL									
09...	37	18	.5	70	12	.12	.020	.040	4.0
SEP									
02...	31	116	1.6	2300	23	.11	.060	.140	5.0

02413210 LITTLE TALLAPOOSA RIVER BELOW BOWDON, GA.

LOCATION.—Lat 33°29'34", long 85°16'45", Carroll County, Hydrologic Unit 03150108, at bridge on State Highway 100, 1.9 mi (3.1 km) upstream from Indian Creek, and 3.8 mi (6.1 km) southwest of Bowdon.
DRAINAGE AREA.—245 mi^2 (635 km^2).
PERIOD OF RECORD.—July 1974 to current year.
REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 08...	1230	157	6.9	6.8	26.0	14.5	9.6
NOV 05...	1315	131	6.9	6.9	18.0	12.5	8.4
DEC 10...	1730	242	--	6.9	6.0	11.5	9.5
JAN 06...	1300	114	7.0	7.2	8.5	3.0	11.6
FEB 03...	1445	440	6.2	6.6	2.0	4.5	10.5
MAR 05...	1135	680	--	6.9	17.0	12.0	9.2
APR 06...	1530	920	--	6.7	22.5	16.5	7.9
MAY 05...	1315	118	6.4	6.8	28.0	17.5	6.3
JUN 03...	1500	635	6.6	6.6	29.5	22.5	6.2
JUL 09...	1315	145	6.6	6.7	33.0	25.5	5.7
AUG 05...	0915	63	6.6	6.9	30.0	23.5	5.2
SEP 02...	1430	240	6.9	6.6	32.5	23.0	5.2

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY LAB (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 08...	62	8	1.0	230	15	.51	.090	.150	2.0
NOV 05...	59	5	1.0	110	16	.45	.080	.100	3.5
DEC 10...	57	8	1.7	750	18	.52	.080	.180	3.0
JAN 06...	62	7	2.1	40	17	.53	.070	.230	2.0
FEB 03...	58	29	4.0	430	11	.38	.210	.410	7.0
MAR 05...	57	32	4.3	2300	14	.35	.180	.430	5.0
APR 06...	44	45	2.4	930	11	.25	.200	.200	6.0
MAY 05...	59	--	1.7	<30	14	.98	.120	.320	2.0
JUN 03...	43	54	2.0	9300	11	.25	.170	.240	6.0
JUL 09...	50	14	.8	70	9.0	.65	.070	.150	4.0
AUG 05...	116	5	1.4	90	17	1.5	.850	.560	4.0
SEP 02...	71	76	3.8	7500	13	.70	.850	.720	4.0

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN

02381400 CARTERS LAKE.--Lat 34°36'50", long 84°40'16", Murray County, Hydrologic Unit 03150102, at forebay of dam on Coosawattee River, 1.3 mi (2.1 km) upstream from Talking Rock Creek, 1.3 mi (2.1 km) east of Carters, 1.9 mi (3.1 km) upstream from Louisville and Nashville Railway bridge, and at mile 26.8 (43.1 km). DRAINAGE AREA, 373 mi^2 (966 km^2). PERIOD OF RECORD, November 1974 to current year. REVISED RECORDS, WRD GA-80-1: Drainage area. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Lake is formed by rolled rock-filled dam. Emergency spillway, crest elevation, 1,070 ft (326.14 m), is equipped with five taintor gates 42 ft (12.8 m) wide by 36.6 ft (11.2 m) high. There is one sluice 16.5 ft (5.0 m) in diameter. Storage began Nov. 12, 1974. Lake first reached minimum pool, elevation, 1,022 ft (311.51 m) Mar. 17, 1975. Power operation began July 19, 1975. Capacity at primary flood control pool elevation, 1,099 ft (334.98 m), 472,800 acre-ft (583 hm^3). Capacity at maximum power pool elevation, 1,072 ft (326.75 m), 377,100 acre-ft (465 hm^3). Dead storage below elevation 1,022 ft (311.51 m), 242,200 acre-ft (299 hm^3). Lake is used for flood control and power. Capacity table and monthend elevations furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 472,400 acre-ft (582 hm^3) Apr. 8, 1977, elevation, 1,099.16 ft (335.024 m); minimum, after first filling, 356,200 acre-ft (439 hm^3) Oct. 22, 1976, elevation, 1,064.30 ft (324.399 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 380,200 acre-ft (469 hm^3) Mar. 31, elevation, 1,073.20 ft (327.111 m); minimum, 360,600 acre-ft (445 hm^3) Sept. 28, elevation, 1,067.05 ft (325.237 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1072.70	378500	-	-
Oct. 31................	1072.10	376600	-1900	-31
Nov. 30................	1072.65	378400	+1800	+30
Dec. 31................	1071.56	374900	-3500	-57
CAL YR 1980	-	-	+1400	+2
Jan. 31................	1069.65	368800	-6100	-99
Feb. 28................	1070.40	371200	+2400	+43
Mar. 31................	1073.20	380200	+9000	+146
Apr. 30................	1070.70	372100	-8100	-136
May 31................	1072.32	377300	+5200	+85
June 30................	1073.05	379700	+2400	+40
July 31................	1069.30	367700	-12000	-195
Aug. 31................	1069.90	369600	+1900	+31
Sept. 30................	1068.05	363800	-5800	-97
WTR YR 1981	-	-	-14700	-20

02382400 CARTERS RE-REGULATION DAM.--Lat 34°36'15", long 84°41'29", Murray County, Hydrologic Unit 03150102, at afterbay of main dam, on Coosawattee River, 0.2 mi (0.3 km) downstream from Talking Rock Creek, 0.2 mi (0.3 km) upstream from Louisville and Nashville Railway bridge, 1.5 mi (2.4 km) downstream from main dam and at mile 25.3 (40.7 km). DRAINAGE AREA, 520 mi^2 (1,350 km^2). PERIOD OF RECORD, July 1975 to current year. REVISED RECORDS, WRD GA-80-1: Drainage area. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Reservoir is formed by concrete gravity dam with earth dikes on either side. Spillway, crest elevation, 662.5 ft (201.93 m) is equipped with four taintor gages 42 ft (12.8 m) wide by 36.5 ft (11.1 m) high. Capacity at maximum storage pool elevation, 698 ft (212.8 m), 17,600 acre-ft (21.7 hm^3). Dead storage, 290 acre-ft (0.36 hm^3). The reservoir is used for storage and re-regulation of power releases from Carters main dam. Capacity table and monthend elevations furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 18,800 acre-ft (23.2 hm^3) Apr. 14, 1977, elevation, 699.36 ft (213.165 m); minimum, 500 acre-ft (0.62 hm^3) June 30, 1975, elevation, 666.12 ft (203.033 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 17,500 acre-ft (21.6 hm^3) Jan. 5, elevation, 698.18 ft (212.805 m); minimum, 2,200 acre-ft (2.71 hm^3) Apr. 28, elevation, 676.80 ft (206.289 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	684.38	6700	-	-
Oct. 31................	686.59	8200	+1500	+24
Nov. 30................	685.00	7100	-1100	-18
Dec. 31................	688.23	9400	+2300	+37
CAL YR 1980	-	-	+4200	+6
Jan. 31................	696.15	15800	+6400	+104
Feb. 28................	691.08	11600	-4200	-76
Mar. 31................	686.21	8000	-3600	-59
Apr. 30................	695.61	15300	+7300	+123
May 31................	689.83	10600	-4700	-76
June 30................	687.18	8700	-1900	-32
July 31................	697.40	16900	+8200	+133
Aug. 31................	696.50	16100	-800	-13
Sept. 30................	693.48	13600	-2500	-42
WTR YR 1981	-	-	+6900	+10

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN—Continued

02393500 ALLATOONA RESERVOIR.—Lat 34°09'46", long 84°43'40", Bartow County, Hydrologic Unit 03150104, at forebay of dam on Etowah River, 2.8 mi (4.5 km) upstream from Nashville, Chattanooga, & St. Louis Railway bridge, 4 mi (6.4 km) east of Cartersville, and 6 mi (9.7 km) upstream from Pumpkinvine Creek. DRAINAGE AREA, 1,120 mi^2 (2,900 km^2), revised. PERIOD OF RECORD, December 1949 to current year. REVISED RECORDS, WRD GA-80-1: Drainage area. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Lake is formed by concrete gravity dam. Spillway, crest elevation, 835.0 ft (254.51 m) is equipped with nine taintor gates 40 ft (12.2 m) wide by 25 ft (7.6 m) high. There are four sluices 5.67 ft (1.73 m) by 10 ft (3.05 m) high and one sluice 4.0 ft (1.22 m) in diameter. Storage began Dec. 27, 1949; water in lake first reached minimum pool elevation Feb. 5, 1950. Total capacity at elevation 860.0 ft (262.13 m), top of gates, is 670,000 acre-ft (826 hm^3), of which 587,100 acre-ft (724 hm^3) is controlled storage above 800 ft (243.84 m), minimum pool. Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 693,800 acre-ft (855 hm^3) Apr. 10, 1964, elevation, 861.19 ft (262.491 m); minimum, 119,600 acre-ft (147 hm^3) Dec. 4, 1954, elevation, 809.34 ft (246.69 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 404,000 acre-ft (498 hm^3) June 9, elevation, 842.98 ft (256.940 m); minimum, 191,800 acre-ft (236 hm^3) Jan. 22, elevation, 821.53 ft (250.402 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30	834.29	304100	-	-
Oct. 31	834.21	303200	-900	-15
Nov. 30	831.00	271300	-31900	-536
Dec. 31	825.00	218500	-52800	-859
CAL YR 1980	-	-	-8900	-12
Jan. 31	821.62	192500	-26000	-423
Feb. 28	831.70	278100	+85600	+1541
Mar. 31	835.70	318900	+40800	+664
Apr. 30	839.14	357400	+38500	+647
May 31	841.74	388700	+31300	+509
June 30	840.03	367900	-20800	-350
July 31	835.39	315600	-52300	-851
Aug. 31	832.36	284500	-31100	-506
Sept. 30	826.77	233200	-51300	-862
WTR YR 1981	-	-	-70800	-98

03545000 HIWASSEE RIVER AT PRESLEY, GA.

LOCATION.—Lat 34°54'17", long 83°42'01", Towns County, Hydrologic Unit 06020002, on left bank 0.1 mi (0.2 km) downstream from Cynth Creek, 0.5 mi (0.8 km) southeast of Presley, 1.4 mi (2.3 km) upstream from Hightower Creek, and at mile 133.9 (215.4 km).

DRAINAGE AREA.—45.5 mi^2 (118 km^2).

PERIOD OF RECORD.—October 1941 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.—WSP 973: 1942. WSP 1910: 1957-58, 1959-60(P).

GAGE.—Water-stage recorder. Datum of gage is 1,932.69 ft (589.084 m) National Geodetic Vertical Datum of 1929.

REMARKS.—Records good. Records of chemical analyses for the water years 1969-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.—40 years, 139 ft^3/s (3.94 m^3/s), 41.49 in/yr (1,054 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 5,700 ft^3/s (161 m^3/s) Mar. 11, 1952, gage height, 15.24 ft (4.645 m), from rating curve extended above 3,000 ft^3/s (85.0 m^3/s) on basis of slope-area and contracted-opening measurements at gage heights 12.80 and 15.24 ft (3.901 and 4.645 m), respectively; minimum, 15 ft^3/s (0.42 m^3/s) Dec. 16, 1958, gage-height, 1.48 ft (0.451 m), result of a freezeup; minimum daily, 23 ft^3/s (0.65 m^3/s) Sept. 29, Oct. 5, 6, 8, 10-13, 1954, Sept. 7, 1957.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 800 ft^3/s (22.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 27	0715	*1190	33.7	5.35	1.631

Minimum discharge, 27 ft^3/s (0.76 m^3/s) Aug. 31, Sept. 1, 28-30, gage height, 1.28 ft (0.390 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	50	61	40	67	100	190	72	188	72	49	32
2	65	47	57	39	158	96	155	70	258	77	65	33
3	55	45	55	38	90	91	134	68	303	77	50	31
4	50	46	53	38	71	107	123	67	453	70	45	78
5	47	43	51	36	67	126	169	66	369	74	43	44
6	45	41	49	41	58	109	143	70	289	71	43	96
7	43	41	48	41	54	102	131	72	250	66	44	101
8	41	40	47	38	54	98	123	65	219	62	44	71
9	40	40	52	37	50	93	126	63	190	60	41	52
10	39	38	60	36	184	90	116	67	169	57	50	45
11	38	37	51	36	376	87	111	84	153	56	52	41
12	37	36	49	36	198	84	106	67	141	59	43	39
13	37	36	48	35	137	83	102	63	138	57	40	37
14	36	36	47	35	114	80	99	65	126	53	38	36
15	36	58	46	35	101	78	96	91	119	52	37	52
16	36	50	48	34	93	80	92	70	113	55	37	67
17	36	47	45	34	120	76	98	67	108	54	36	44
18	49	50	44	34	296	82	94	66	104	52	36	39
19	53	45	44	34	363	77	90	93	100	51	36	38
20	41	44	43	39	273	74	90	89	99	49	37	37
21	39	43	42	50	216	72	85	80	95	47	37	35
22	38	42	42	40	178	81	83	72	91	44	35	34
23	37	47	42	38	159	77	102	67	88	43	34	33
24	38	81	46	37	136	72	96	64	86	43	33	32
25	51	64	44	37	123	70	88	62	85	43	31	31
26	41	57	41	37	115	68	84	106	79	42	30	30
27	39	113	41	40	108	67	81	651	75	45	30	30
28	72	95	41	38	103	66	79	319	74	45	29	29
29	51	77	42	37	---	65	81	216	72	43	29	29
30	59	67	42	48	---	337	76	168	71	42	29	29
31	54	---	41	44	---	215	---	182	---	42	29	---
TOTAL	1433	1556	1462	1182	4062	3003	3243	3422	4705	1703	1212	1325
MEAN	46.2	51.9	47.2	38.1	145	96.9	108	110	157	54.9	39.1	44.2
MAX	90	113	61	50	376	337	190	651	453	77	65	101
MIN	36	36	41	34	50	65	76	62	71	42	29	29
CFSM	1.02	1.14	1.04	.84	3.19	2.13	2.37	2.42	3.45	1.21	.86	.97
IN.	1.17	1.27	1.20	.97	3.32	2.46	2.65	2.80	3.85	1.39	.99	1.08

CAL YR 1980 TOTAL 48963 MEAN 134 MAX 1020 MIN 30 CFSM 2.95 IN 40.03
WTR YR 1981 TOTAL 28308 MEAN 77.6 MAX 651 MIN 29 CFSM 1.71 IN 23.14

03550500 NOTTELY RIVER NEAR BLAIRSVILLE, GA.

LOCATION.—Lat 34°50'28", long 83°56'10", Union County, Hydrologic Unit 06020002, on left bank 250 ft (76 m) upstream from county road bridge, 0.1 mi (0.2 km) downstream from Arkaqua Creek, 0.2 mi (0.3 km) upstream from Akins Creek, 2.7 mi (4.3 km) southeast of Blairsville, and at mile 44.3 (71.3 km).
DRAINAGE AREA.—74.8 mi^2 (194 km^2).
PERIOD OF RECORD.—January 1942 to current year.
REVISED RECORDS.—WSP 1053: 1942(M), 1943. WSP 1236: 1946(M), 1950(M).
GAGE.—Water-stage recorder. Datum of gage is 1,812.47 ft (552.441 m) National Geodetic Vertical Datum of 1929.
REMARKS.—Records good. Occasional regulation by Lake Trahlyta in Vogel State Park.
AVERAGE DISCHARGE.—39 years, 188 ft^3/s (5.32 m^3/s), 34.13 in/yr (867 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 12,900 ft^3/s (365 m^3/s) Aug. 23, 1967, gage height, 21.04 ft (6.413 m), from floodmark, from rating curve extended above 3,400 ft^3/s (96.3 m^3/s) on basis of contracted-opening measurements at gage heights 13.29 ft (4.051 m), 16.78 ft (5.115 m), and 21.04 ft (6.413 m); minimum, 27 ft^3/s (0.76 m^3/s) Sept. 8, Oct. 7, 1947, gage height, 1.77 ft (0.539 m).
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 27	0815	*3210	90.9	8.82	2.688

Minimum discharge, 30 ft^3/s (0.84 m^3/s) Aug. 24 to Sept. 4, Sept. 28-30, gage height, 1.81 ft (0.552 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	76	81	55	79	115	201	82	234	100	58	34
2	105	73	78	53	231	107	172	81	360	97	64	36
3	87	70	74	53	112	102	172	77	435	93	57	33
4	78	70	70	53	91	151	243	74	648	88	52	84
5	73	67	69	54	80	154	189	72	517	95	50	54
6	69	64	67	54	75	127	166	83	387	94	49	72
7	66	64	66	53	72	118	183	96	343	86	51	143
8	63	63	64	53	71	111	162	78	291	80	54	67
9	61	62	73	52	66	107	165	74	243	77	49	51
10	60	61	86	51	404	103	146	76	214	74	52	45
11	58	58	72	51	808	100	137	96	188	84	67	41
12	55	58	69	51	309	98	128	78	168	78	50	39
13	54	58	67	50	205	96	123	72	217	74	47	39
14	54	57	66	50	158	94	117	77	177	69	46	37
15	54	95	64	50	134	91	112	140	151	66	41	58
16	53	78	67	50	121	96	107	85	134	72	41	90
17	53	75	62	49	130	90	110	82	129	70	40	49
18	64	73	61	49	309	101	108	81	122	69	40	44
19	87	69	60	48	509	94	104	140	117	92	40	42
20	61	65	59	53	382	89	102	116	114	76	42	68
21	57	64	58	65	284	87	99	102	111	69	45	108
22	56	62	57	55	229	96	96	91	106	63	39	86
23	54	75	58	52	201	91	128	84	101	60	38	52
24	54	145	62	50	167	87	110	78	100	60	36	37
25	72	104	60	49	145	85	99	75	108	61	34	37
26	60	88	56	50	134	81	96	112	99	55	33	36
27	57	126	56	55	125	80	93	1860	90	55	33	35
28	80	110	56	53	118	78	90	658	86	58	32	34
29	79	94	57	50	---	79	90	360	88	53	32	32
30	88	87	57	63	---	550	86	263	86	54	32	33
31	84	---	55	60	---	282	---	257	---	51	32	---
TOTAL	2146	2311	2007	1634	5749	3740	3934	5700	6164	2273	1376	1616
MEAN	69.2	77.0	64.7	52.7	205	121	131	184	205	73.3	44.4	53.9
MAX	150	145	86	65	808	550	243	1860	648	100	67	143
MIN	53	57	55	48	66	78	86	72	86	51	32	32
CFSM	.93	1.03	.87	.71	2.74	1.62	1.75	2.46	2.74	.98	.59	.72
IN.	1.07	1.15	1.00	.81	2.86	1.86	1.96	2.83	3.07	1.13	.68	.80

CAL YR 1980 TOTAL 67107 MEAN 183 MAX 1930 MIN 45 CFSM 2.45 IN 33.37
WTR YR 1981 TOTAL 38650 MEAN 106 MAX 1860 MIN 32 CFSM 1.42 IN 19.22

03558000 TOCCOA RIVER NEAR DIAL, GA.

LOCATION.—Lat 34°47'24", long 84°14'24", Fannin County, Hydrologic Unit 06020003, on right bank 1.4 mi (2.3 km) upstream from Shallowford Bridge, 1.8 mi (2.9 km) upstream from Stanley Creek, 2.5 mi (4.0 km) northwest of Dial, and at mile 69.1 (111.2 km).

DRAINAGE AREA.—177 mi^2 (458 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1912 to current year. Prior to January 1913 monthly discharges only, published in WSP 1306.

REVISED RECORDS.—WSP 823: Drainage area. WSP 1386: 1923(M), 1924, 1927(M), 1929-32(M), 1933, 1934(M), 1944(M).

GAGE.—Water-stage recorder. Datum of gage is 1,792.08 ft (546.226 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1927, water-stage recorder and Oct. 1, 1927, to Nov. 16, 1928, nonrecording gage at same site and datum.

REMARKS.—Records good.

AVERAGE DISCHARGE.—69 years, 498 ft^3/s (14.1 m^3/s), 38.21 in/yr (971 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 14,700 ft^3/s (416 m^3/s), Aug. 23, 1967, gage height, 13.73 ft (4.185 m), from rating curve extended above 5,000 ft^3/s (142 m^3/s) on basis of slope-area measurement at gage height 11.20 ft (3.414 m), and a contracted-opening measurement at 13.73 ft (4.185 m); minimum, 60 ft^3/s (1.70 m^3/s) Sept. 6, 1925, gage height, 0.40 ft (0.122 m).

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of November 1906 reached a stage of 18.5 ft (5.64 m) and is highest known since about 1840, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 2,400 ft^3/s (68.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Feb. 11	0030	2400	68.0	4.78	1.457
May 27	0730	*2980	84.4	5.38	1.640

Minimum daily discharge, 120 ft^3/s (3.40 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	433	220	233	163	162	335	585	280	570	276	203	156
2	307	209	221	159	407	319	490	275	916	293	230	183
3	261	201	212	156	239	301	424	270	844	296	207	150
4	236	204	205	157	204	344	390	268	1130	278	193	360
5	226	196	200	156	200	502	559	265	896	276	188	285
6	213	186	196	156	195	376	467	270	729	295	178	225
7	205	183	193	155	178	341	419	293	726	302	194	595
8	199	183	190	155	181	321	395	271	665	265	199	258
9	197	180	222	154	168	307	397	256	574	251	182	201
10	195	177	309	154	756	298	379	256	522	241	165	177
11	191	166	239	153	1650	291	359	275	491	247	216	165
12	181	164	219	153	627	284	349	260	454	250	216	156
13	174	163	208	152	434	279	339	248	446	237	183	153
14	174	163	199	152	363	276	330	252	433	226	174	148
15	175	312	195	151	321	268	322	385	397	221	168	156
16	176	292	201	150	298	283	311	273	390	229	168	300
17	178	228	193	150	322	265	319	264	373	235	168	186
18	212	265	189	148	831	293	407	278	365	216	165	159
19	375	226	177	146	1340	291	355	408	355	245	162	153
20	226	208	174	144	942	266	331	340	351	251	168	148
21	199	198	170	197	666	260	322	304	349	226	201	145
22	191	190	166	167	547	278	308	271	322	205	171	140
23	184	217	172	153	503	273	354	257	318	194	159	135
24	181	404	205	148	437	259	406	247	308	196	159	132
25	233	318	207	142	400	252	334	244	327	223	150	132
26	208	262	172	142	376	246	314	309	327	193	138	130
27	192	325	175	153	355	243	303	1900	294	193	140	128
28	354	303	173	159	340	238	294	1110	285	186	135	128
29	264	267	174	142	---	237	296	646	280	185	135	122
30	259	246	171	150	---	947	293	508	276	222	142	120
31	242	---	166	162	---	580	---	465	---	191	140	---
TOTAL	7041	6856	6126	4779	13442	10053	11151	11948	14713	7344	5397	5626
MEAN	227	229	198	154	480	324	372	385	490	237	174	188
MAX	433	404	309	197	1650	947	585	1900	1130	302	230	595
MIN	174	163	166	142	162	237	293	244	276	185	135	120
CFSM	1.28	1.29	1.12	.87	2.71	1.83	2.10	2.18	2.77	1.34	.98	1.06
IN.	1.48	1.44	1.29	1.00	2.83	2.11	2.34	2.51	3.09	1.54	1.13	1.18

CAL YR 1980 TOTAL 204792 MEAN 560 MAX 4210 MIN 156 CFSM 3.16 IN 43.04
WTR YR 1981 TOTAL 104476 MEAN 286 MAX 1900 MIN 120 CFSM 1.62 IN 21.96

03558000 TOCCOA RIVER NEAR DIAL, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
OCT					
02...	1325	300	18.5	11	8.9
NOV					
14...	1310	162	--	2	.87
DEC					
18...	0920	191	3.0	3	1.5
FEB					
06...	0845	195	1.0	4	2.1
MAR					
19...	0905	291	5.5	4	3.1
APR					
30...	0855	294	14.5	5	4.0
JUL					
23...	0730	191	20.0	5	2.6

03566800 SOUTH CHICKAMAUGA CREEK AT GRAYSVILLE, GA.

LOCATION.—Lat 34°58'39", long 85°08'42", Catoosa County, Hydrologic Unit 06020001, at bridge on Graysville Road at Graysville, 200 ft (61 m) above dam at Swanson Mill, and 19.5 mi (31.4 km) above mouth.

DRAINAGE AREA.—198 mi^2 (513 km^2).

PERIOD OF RECORD.—August 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV 24...	1630	405	--	7.8	11.0	9.5	9.7
JAN 28...	0930	95	7.9	8.0	4.0	8.0	10.2
MAR 24...	1530	300	7.9	8.2	16.5	11.0	11.9
MAY 26...	1345	125	--	7.9	24.5	19.0	5.7
JUL 27...	1430	57	7.8	7.8	37.0	26.0	7.3
SEP 29...	1230	77	7.3	7.8	28.0	19.0	7.7

DATE	SPECIFIC CONDUCTANCE LAB (UMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)	ALKALINITY LAB (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 24...	230	18	1.5	33000	110	100	.46	.080	.150	3.0
JAN 28...	245	6	1.4	230	128	109	.20	.030	.050	<1.0
MAR 24...	202	10	1.5	4300	98	90	.33	.030	.040	2.0
MAY 26...	252	10	.8	150	118	112	.55	.040	.070	<1.0
JUL 27...	230	10	.9	90	110	96	.50	.020	.110	2.5
SEP 29...	277	8	.5	320	140	123	.24	.020	.060	<1.0

03567125 MUD CREEK AT CEDAR GROVE, GA.

LOCATION.—Lat 34°42'24", long 85°25'01", Walker County, Hydrologic Unit 06020001, at bridge on county road 0.9 mi (1.4 km) southeast of Cedar Grove.
DRAINAGE AREA.—22.2 mi^2 (57.5 km^2).
PERIOD OF RECORD.—April 1979 to August 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
15...	1445	26	190	191	8.0	7.9	17.0	10.0
AUG								
31...	1500	19	230	228	8.0	8.0	22.0	7.8

DATE	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
APR							
15...	105	89	3.8	112	7.8	5	.35
AUG							
31...	110	110	7.2	145	7.4	23	1.2

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
APR							
15...	240	220	20	30	10	20	--
AUG							
31...	840	810	30	90	30	60	3.00

03567200 WEST CHICKAMAUGA CREEK NEAR KENSINGTON, GA.

LOCATION.—Lat 34°48'10", long 85°20'52", Walker County, Hydrologic Unit 06020001, at bridge on State Route 143, 2.5 mi (4.0 km) north of Kensington.
DRAINAGE AREA.—73.0 mi^2 (189 km^2).
PERIOD OF RECORD.—April 1979 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV 24...	1500	178	200	210	7.6	7.6	11.5	10.3
DEC 30...	1315	18	235	248	7.8	8.0	6.5	12.8
JAN 13...	1430	15	250	259	8.0	8.1	3.0	--
FEB 04...	1430	128	190	195	7.7	7.9	6.5	12.0
MAR 10...	1045	98	190	198	7.6	7.8	9.0	11.3
APR 15...	1330	71	200	203	7.8	7.8	18.0	9.4
MAY 19...	1050	43	255	254	7.5	8.0	17.0	8.8
JUN 10...	1330	88	190	197	8.0	7.7	22.0	7.4
SEP 01...	1430	36	230	224	8.1	8.0	23.0	6.7

DATE	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV 24...	89	82	13	--	--	29	14
DEC 30...	120	110	9.9	141	6.8	1	.05
JAN 13...	115	--	12	147	5.9	1	.04
FEB 04...	--	76	8.9	104	35.9	22	7.6
MAR 10...	82	83	6.6	110	29.1	10	2.6
APR 15...	--	91	7.2	119	22.8	12	2.3
MAY 19...	123	120	17	153	17.8	22	2.6
JUN 10...	98	85	7.9	117	27.8	28	6.7
SEP 01...	104	100	11	140	13.6	17	1.7

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
NOV 24...	--	--	80	--	50	--	--
DEC 30...	860	710	150	60	0	60	--
JAN 13...	400	260	140	60	10	50	--
FEB 04...	570	500	70	50	10	40	--
MAR 10...	510	480	30	40	10	30	--
APR 15...	310	280	30	50	20	30	--
MAY 19...	470	420	50	80	50	30	--
JUN 10...	530	480	50	60	40	20	--
SEP 01...	580	520	60	70	40	30	5.00

03567340 WEST CHICKAMAUGA CREEK NEAR LAKEVIEW, GA.

LOCATION.--Lat 34°57'26", long 85°12'20", Catoosa County, Hydrologic Unit 06020001, at Dyer Bridge on Cloud Springs Road, 3 mi (4.8 km) southeast of Lakeview.

DRAINAGE AREA.--148 mi² (383 km²).

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
28...	1215	69	7.6	7.9	15.5	13.5	7.2
NOV							
25...	0800	366	--	7.7	8.5	10.0	7.6
DEC							
08...	1440	80	7.6	7.6	23.0	10.0	8.8
JAN							
28...	1030	88	7.7	7.9	8.5	8.0	10.1
FEB							
25...	1515	244	--	7.7	23.5	11.0	8.9
MAR							
24...	1630	210	7.6	7.9	16.5	11.0	9.8
APR							
28...	1630	89	--	7.7	31.0	19.5	6.3
MAY							
26...	1430	90	--	7.8	24.5	19.5	5.3
JUN							
23...	1400	58	7.7	7.9	31.0	25.5	4.8
JUL							
27...	1500	45	7.6	7.6	35.0	26.0	5.4
AUG							
25...	1630	50	7.9	7.8	33.0	23.5	4.8
SEP							
29...	1300	44	--	7.7	27.5	18.0	5.3

DATE	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
28...	310	8	2.2	430	142	133	22	.44	.060	.700	3.0
NOV											
25...	243	75	2.5	9300	110	105	209	.72	.080	.290	8.0
DEC											
08...	285	6	.8	930	132	133	10	.64	.020	.330	10
JAN											
28...	272	8	.7	210	134	125	4	.51	.030	.270	3.0
FEB											
25...	217	15	1.3	3900	97	91	12	.98	.090	.240	2.0
MAR											
24...	235	18	1.2	4300	120	109	23	.49	.060	.200	2.5
APR											
28...	271	13	1.0	930	126	127	23	.84	.060	.880	8.0
MAY											
26...	287	11	1.2	430	116	131	18	.72	.060	.510	6.0
JUN											
23...	271	9	.4	230	128	125	17	.80	.060	.530	4.0
JUL											
27...	315	13	2.4	930	124	129	21	.46	.020	1.10	6.0
AUG											
25...	250	14	1.6	--	114	106	28	.56	.060	.600	3.5
SEP											
29...	361	10	<.1	230	138	158	13	.46	.020	.870	3.0

03568250 CHATTANOOGA CREEK AT HIGH POINT, GA.

LOCATION.—Lat 34°51'51", long 85°21'54", Walker County, Hydrologic Unit 06020001, at bridge on county road 0.1 mi (0.2 km) east of High Point.
DRAINAGE AREA.—5.5 mi^2 (14.2 km^2).
PERIOD OF RECORD.—April 1979 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR 15...	1130	9.0	220	231	7.9	7.9	16.0	10.4
SEP 01...	1315	1.2	300	298	8.1	8.1	21.0	8.3

DATE	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
APR 15...	133	110	4.4	129	3.1	9	.22
SEP 01...	157	150	9.4	188	.61	31	.10

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
APR 15...	180	180	0	20	0	20	--
SEP 01...	360	340	20	50	20	30	2.00

03568300 CHATTANOOGA CREEK AT STATE ROUTE 341, NEAR FLINTSTONE, GA.

LOCATION.—Lat 34°55'27", long 85°20'44", Walker County, Hydrologic Unit 06020001, at bridge on State Route 341, 1.5 mi (2.4 km) south of Flintstone.
DRAINAGE AREA.—18.9 mi^2 (49.0 km^2).
PERIOD OF RECORD.—August 1976, April 1977, April 1979 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
15...	1045	19	215	219	7.8	7.8	16.0	10.0
SEP								
01...	0930	2.2	240	244	7.9	8.0	22.5	5.6

DATE	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
APR							
15...	125	100	5.3	119	6.1	10	.51
SEP							
01...	126	120	5.3	153	.91	19	.11

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
APR							
15...	240	200	40	40	10	30	--
SEP							
01...	560	520	40	120	50	70	4.00

03568306 ROCK CREEK AT DURHAM, GA.

LOCATION.—Lat 34°51'37", long 85°25'59", Walker County, Hydrologic Unit 06020001, below State Route 170 at Durham, and 1.5 mi (2.4 km) west of Thompsonville.
DRAINAGE AREA.—0.80 mi^2 (2.07 km^2).
PERIOD OF RECORD.—April 1979 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
APR 16...	1030	4.8	315	330	7.0	7.3	14.0	10.4
SEP 02...	1330	.64	400	404	--	7.0	18.0	7.6

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKALINITY FIELD (MG/L AS CACO3)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SEDIMENT, SUSPENDED (MG/L)
APR 16...	--	--	21	20	120	211	2.7	3
SEP 02...	.1	5.0	--	14	190	312	.54	1

DATE	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
APR 16...	.04	80	50	30	220	10	210
SEP 02...	.00	270	160	110	560	0	580

DATE	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	COAL IN BOTTOM MATERIAL (GM/KG)
SEP 02...	<1	<1	9	20	330	14000	20	390	<.01	<1	121	54.0

03568310 ROCK CREEK NEAR HINKLE, GA.

LOCATION.—Lat 34°53'29", long 85°24'41", Walker County, Hydrologic Unit 06020001, at bridge on Nickajack Road 1.2 mi (1.9 km) south of Hinkle.
DRAINAGE AREA.—7.40 mi^2 (19.2 km^2).
PERIOD OF RECORD.—August 1976, April 1977, April 1979 to October 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR 16...	0900	16	160	163	6.9	7.0	13.0	10.5
SEP 01...	1200	.74	330	330	--	7.6	21.0	6.9

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	HARD-NESS NONCAR-BONATE (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
APR 16...	--	--	--	--	--	--	--	12	20	55	--	--
SEP 01...	150	140	140	29	19	3.9	1.9	11	12	140	1.0	<.1

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)
APR 16...	--	97	4.1	--	--	5	.22	--	--	--	--	--
SEP 01...	11	236	.47	.03	<.010	38	.08	1	100	2	10	4

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	SELE-NIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
APR 16...	170	160	10	--	--	80	10	70	--	--	--	--
SEP 01...	430	390	40	20	<.1	110	0	120	<1	<1	30	<.01

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
SEP 01...	<1	1	10	20	8	14000	10	920	<.01	<1	54	6.00

03568310 ROCK CREEK NEAR HINKLE, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT								
20...	0730	.45	360	364	6.5	6.7	10.0	6.7

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)
OCT								
20...	.2	10	10	14	160	254	.31	8

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
OCT							
20...	.01	580	390	190	270	10	260

03568320 LONG BRANCH NEAR HINKLE, GA.

LOCATION.--Lat 34°33'31", long 85°23'36", Walker County, Hydrologic Unit 06020001, at culvert on Nickajack Road, 0.6 mi (1.0 km) upstream of Rock Creek, and 1.2 mi (1.9 km) south of Hinkle.
DRAINAGE AREA.--3.73 mi² (9.66 km²).
PERIOD OF RECORD.--April 1979 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
16...	0800	4.8	23	22	6.4	6.6	13.0	10.8
SEP								
01...	1115	.01	36	37	6.9	7.4	20.0	6.6

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)
APR								
16...	.1	5.0	--	15	4.7	22	.29	--
SEP								
01...	.1	5.0	13	11	4.9	33	.00	1

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR							
16...	--	90	70	20	10	0	10
SEP							
01...	.00	280	140	140	20	--	<10

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
SEP												
01...	<1	<1	3	10	1	2600	<10	190	<.01	<1	<10	7.00

03568360 ROCK CREEK NEAR FLINTSTONE, GA.

LOCATION.--Lat 34°56'33", long 85°21'25", Walker County, Hydrologic Unit 06020001, adjacent to county road 1.0 mi (1.6 km) west of Flintstone.
DRAINAGE AREA.--22.2 mi^2 (57.5 km^2).
PERIOD OF RECORD.--August 1976, April 1977, April 1979 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR 15...	0915	37	85	83	6.7	6.7	14.5	10.4
SEP 01...	0830	1.5	270	270	7.3	7.7	23.0	7.6

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)
APR 15...	.1	5.0	8	11	26	56	5.5	7
SEP 01...	--	--	20	16	100	187	.76	14

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
APR 15...	.70	160	140	20	10	0	10	--
SEP 01...	.06	270	240	30	40	20	20	7.00

03568500 CHATTANOOGA CREEK NEAR FLINTSTONE, GA.

LOCATION.—Lat 34°58'20", long 85°19'40", Walker County, Hydrologic Unit 06020001, at bridge on Burnt Mill Road, 0.7 mi (1.1 km) from Georgia-Tennessee State Line, and 2.3 mi (3.7 km) north of Flintstone.
DRAINAGE AREA.—50.6 mi^2 (131 km^2).
PERIOD OF RECORD.—April 1979 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV 25...	0830	86	140	143	7.0	7.4	10.5	9.5
DEC 31...	0800	13	200	209	7.4	7.9	6.5	12.6
JAN 14...	1000	12	200	212	--	7.9	3.0	11.8
FEB 05...	1000	96	115	121	7.1	7.5	4.0	12.3
MAR 10...	1230	77	130	137	7.2	7.5	8.0	10.1
APR 15...	0745	71	145	145	7.3	7.4	17.0	7.4
MAY 18...	1500	24	200	201	7.7	7.8	15.5	9.7
JUN 11...	0800	42	150	159	7.6	7.5	22.0	6.7
SEP 01...	0700	6.9	240	236	7.7	7.9	22.0	4.8

DATE	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
NOV 25...	49	45	16	93	21.6	31	7.2
DEC 31...	87	75	18	113	3.9	1	.04
JAN 14...	85	75	18	122	3.9	1	.03
FEB 05...	67	33	11	62	16.1	7	1.8
MAR 10...	54	42	15	78	16.2	5	1.0
APR 15...	108	48	16	84	16.1	30	5.8
MAY 18...	84	66	23	118	7.6	47	3.0
JUN 11...	67	55	15	104	11.8	44	5.0
SEP 01...	113	110	11	152	2.8	14	.26

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
NOV 25...	540	430	110	70	30	40	--
DEC 31...	400	350	50	60	10	50	--
JAN 14...	260	200	60	50	0	50	--
FEB 05...	370	330	40	50	20	30	--
MAR 10...	370	340	30	40	0	40	--
APR 15...	760	710	50	70	30	40	--
MAY 18...	550	490	60	100	30	70	--
JUN 11...	1000	900	100	110	30	80	--
SEP 01...	460	370	90	110	10	100	3.00

03568745 LOOKOUT CREEK AT SULPHUR SPRINGS, GA.

LOCATION.--Lat 34°41'32", long 85°32'14", Dade County, Hydrologic Unit 06020001, at bridge on county road, 0.4 mi (0.6 km) northeast of Sulphur Springs and 1.5 mi (2.4 km) downstream of confluence of East Fork Lookout Creek and West Fork Lookout Creek.

DRAINAGE AREA.--16.3 mi² (42.2 km²).

PERIOD OF RECORD.--April 1979 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
14...	1430	22	198	201	8.1	8.0	20.5	9.5
SEP								
03...	0845	6.8	250	246	--	8.1	21.5	7.0

DATE	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
APR							
14...	112	94	4.4	113	6.7	8	.48
SEP							
03...	--	130	5.2	153	2.8	12	.22

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
APR							
14...	200	150	50	20	0	20	--
SEP							
03...	--	--	50	40	20	20	4.00

03568785 LOOKOUT CREEK AT RISING FAWN, GA.

LOCATION.—Lat 34°45'51", long 85°31'37", Dade County, Hydrologic Unit 06020001, at bridge on State Route 189, 0.4 mi (0.6 km) east of Rising Fawn.
DRAINAGE AREA.—68.7 mi^2 (176 km^2).
PERIOD OF RECORD.—May 1979 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
14...	1330	99	175	177	7.8	7.8	17.5	9.0
SEP								
03...	0730	25	245	242	--	8.4	22.0	6.5

DATE	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)
APR							
14...	98	83	4.3	106	28.3	13	3.5
SEP							
03...	--	130	6.2	148	9.9	21	1.4

DATE	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR						
14...	330	280	50	40	20	20
SEP						
03...	520	470	50	70	30	40

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
SEP												
03...	0	<1	14	10	2	8300	<10	280	<.01	<1	15	2.00

03568840 DANIEL CREEK NEAR TRENTON, GA.

LOCATION.—Lat 34°48'58", long 85°29'29", Dade County, Hydrologic Unit 06020001, at culvert on State Route 143, 4.8 mi (7.7 km) south of Trenton.

DRAINAGE AREA.—4.8 mi^2 (12.4 km^2).

PERIOD OF RECORD.—August 1976, April 1977, April 1979 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
16...	1330	4.5	30	36	6.5	6.7	14.0	9.8
SEP								
02...	1130	.20	55	53	--	7.8	20.0	7.1

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)
APR								
16...	.2	10	3	4.0	5.8	18	.22	1
SEP								
02...	.1	5.0	--	16	2.4	40	.02	12

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR							
16...	.01	120	80	40	20	0	20
SEP							
02...	.01	270	130	140	40	20	20

DATE	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	COBALT, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CO)	COPPER, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CU)	IRON, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS FE)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MANGA-NESE, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/G AS HG)	SELE-NIUM, TOTAL IN BOT-TOM MA-TERIAL (UG/G)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
SEP												
02...	<1	<1	7	10	7	6400	<10	580	<.01	<1	26	.90

03568860 BEAR CREEK NEAR DURHAM, GA.

LOCATION.—Lat 34°49'41", long 85°27'33", Dade County, Hydrologic Unit 06020001, at culvert on State Route 157, 4.2 mi (6.8 km) southwest of Durham.

DRAINAGE AREA.—7.98 mi2 (20.7 km2).

PERIOD OF RECORD.—August 1976, April 1977, April 1979 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
16...	1130	6.8	35	31	6.6	6.6	14.0	10.4
SEP								
02...	1300	.40	55	53	--	7.6	23.0	7.4

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)
APR								
16...	.1	5.0	3	2.0	7.5	24	.44	3
SEP								
02...	.1	5.0	--	6.0	12	37	.04	1

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	COAL IN BOTTOM MATE-RIAL (GM/KG)
APR								
16...	.06	270	250	20	10	0	10	--
SEP								
02...	.00	310	220	90	30	10	20	5.00

03568920 SQUIRREL TOWN CREEK NEAR NEW ENGLAND, GA.

LOCATION.—Lat 34°55'51", long 85°29'15", Dade County, Hydrologic Unit 06020001, at bridge on Slygo Cove Road, 1.3 mi (2.1 km) north of New England.

DRAINAGE AREA.—3.80 mi^2 (9.84 km^2).

PERIOD OF RECORD.—May 1979 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
APR 14...	0945	2.6	160	162	7.9	8.0	15.0	10.1

DATE	ALKALINITY FIELD (MG/L AS CACO3)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)
APR 14...	92	73	5.8	93	.65	3	.02

DATE	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)
APR 14...	350	350	0	10	0	10

DATE	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	COAL IN BOTTOM MATERIAL (GM/KG)
SEP 02...	<1	1	40	30	8	23000	30	1900	<.01	<1	36	6.00

03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.

LOCATION.—Lat 34°53'51", long 85°27'47", Dade County, Hydrologic Unit 06020001, at bridge on county road, 0.5 mi (0.8 km) downstream of Squirrel Town Creek, 2.2 mi (3.5 km) southeast of New England, and at mile 16.3 (26.2 km).

DRAINAGE AREA.—149 mi^2 (386 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—August 1979 to current year.

GAGE.—Water-stage recorder. Altitude of gage is 670 ft (204 m), from topographic map.

REMARKS.—Records good.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 14,900 ft^3/s (422 m^3/s) Mar. 21, 1980, gage height, 18.21 ft (5.550 m); minimum daily discharge, 16 ft^3/s (0.45 m^3/s) Sept. 29, 30, 1981.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 2,940 ft^3/s (83.3 m^3/s) Feb. 11, gage height, 12.84 ft (3.913 m), no peaks above base of 3,000 ft^3/s (85.0 m^3/s); minimum daily discharge, 16 ft^3/s (0.45 m^3/s) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	26	82	38	75	165	852	103	67	35	26	44
2	62	25	77	37	684	151	737	93	161	42	25	42
3	47	25	71	36	396	134	555	87	99	39	25	39
4	34	24	66	36	259	163	464	82	103	37	25	40
5	26	24	61	34	192	446	1030	76	238	35	25	37
6	24	25	58	34	156	388	663	73	198	35	25	35
7	22	25	55	37	135	310	517	71	186	35	24	70
8	22	27	53	38	121	259	430	68	401	32	28	53
9	23	28	55	37	106	219	401	64	221	31	27	40
10	23	27	97	36	983	191	380	66	173	39	24	34
11	22	27	101	35	2270	171	321	75	173	45	24	30
12	21	26	83	34	758	154	282	68	159	32	39	27
13	21	26	74	34	511	140	245	63	131	30	30	25
14	22	26	66	34	407	128	215	60	111	29	26	23
15	22	87	62	34	336	117	188	57	95	29	24	24
16	22	122	59	33	281	118	164	55	83	28	23	30
17	21	71	56	32	308	110	158	57	75	27	23	29
18	23	65	53	32	749	109	194	58	67	35	47	24
19	25	53	50	32	1010	122	158	111	61	39	51	21
20	25	46	47	33	794	109	144	99	56	29	37	21
21	24	43	45	48	554	102	141	77	53	28	39	20
22	21	40	43	67	450	200	126	66	50	26	37	19
23	22	60	42	67	413	414	144	60	48	25	30	19
24	21	138	43	64	341	329	211	56	44	26	28	18
25	26	122	43	60	283	279	168	54	41	38	27	18
26	25	102	41	58	242	236	144	52	41	46	25	17
27	26	98	40	61	207	204	132	54	45	33	24	17
28	34	125	40	68	182	180	115	52	38	32	23	17
29	34	111	39	65	---	162	114	50	42	32	23	16
30	30	94	39	63	---	1670	116	48	36	28	181	16
31	28	---	38	62	---	1250	---	46	---	27	82	---
TOTAL	924	1738	1779	1379	13203	8730	9509	2101	3296	1024	1097	865
MEAN	29.8	57.9	57.4	44.5	472	282	317	67.8	110	33.0	35.4	28.8
MAX	126	138	101	68	2270	1670	1030	111	401	46	181	70
MIN	21	24	38	32	75	102	114	46	36	25	23	16
CFSM	.20	.39	.39	.30	3.17	1.89	2.13	.46	.74	.22	.24	.19
IN.	.23	.43	.44	.34	3.30	2.18	2.37	.52	.82	.26	.27	.22

CAL YR 1980 TOTAL 112887 MEAN 308 MAX 10800 MIN 21 CFSM 2.07 IN 28.18
WTR YR 1981 TOTAL 45645 MEAN 125 MAX 2270 MIN 16 CFSM .84 IN 11.40

03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.

WATER-QUALITY RECORDS

PERIOD OF RECORD.—April 1979 to October 1981 (discontinued).
PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: November 1980 to September 1981.
INSTRUMENTATION.—Water temperature recorder since November 1980.
REMARKS.—No daily water temperature record Feb. 10 to Mar. 4, Mar. 7, 8, Apr. 8-15, and May 1 to June 4.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum, 26.5°C July 15, 16, 1981; minimum, 0.5°C Jan. 13, 1981.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum, 26.5°C July 15, 16; minimum, 0.5°C Jan. 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
NOV 25...	1200	115	235	255	7.7	7.8	11.0	9.7
DEC 30...	1530	38	215	232	7.9	8.0	6.0	13.1
JAN 13...	1645	34	225	240	8.1	3.1	2.5	--
FEB 04...	1600	242	160	167	7.6	7.6	5.0	13.4
MAR 05...	1230	475	185	193	7.7	7.7	10.0	12.2
APR 14...	1100	213	170	177	7.7	7.6	17.0	8.8
MAY 18...	1200	56	225	234	8.0	8.1	15.5	10.3
JUN 10...	1545	165	175	185	7.9	7.8	21.5	7.0
SEP 02...	0900	44	180	184	--	7.9	22.0	6.0

DATE	HARDNESS (MG/L AS CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	ALKALINITY LAB (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
NOV 25...	--	--	--	--	--	115	110	12	--	--	--
DEC 30...	--	--	--	--	--	115	110	7.8	--	--	--
JAN 13...	--	--	--	--	--	118	110	7.9	--	--	--
FEB 04...	--	--	--	--	--	113	--	9.1	--	--	--
MAR 05...	--	--	--	--	--	110	77.	9.4	--	--	--
APR 14...	--	--	--	--	--	95	75	6.0	--	--	--
MAY 18...	--	--	--	--	--	123	100	6.5	--	--	--
JUN 10...	--	--	--	--	--	95	78	6.6	--	--	--
SEP 02...	81	28	2.8	1.5	2.4	--	84	8.3	2.3	<.1	5.5

03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBFR 1980 TO SEPTEMBER 1981

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER DAY)	PHOSPHORUS, TOTAL (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)
NOV 25...	163	50.6	--	--	--	--	--	--	540	470
DEC 30...	124	12.7	--	--	--	--	--	--	270	240
JAN 13...	133	12.2	--	--	--	--	--	--	150	100
FEB 04...	86	56.2	--	--	--	--	--	--	420	60
MAR 05...	110	141	--	--	--	--	--	--	590	500
APR 14...	101	58.1	--	--	--	--	--	--	390	380
MAY 18...	129	19.5	--	--	--	--	--	--	280	260
JUN 10...	110	49.0	--	--	--	--	--	--	580	510
SEP 02...	118	14.0	.130	2	100	2	10	3	1200	1100

DATE	IRON, DISSOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	CYANIDE TOTAL (MG/L AS CN)
NOV 25...	70	--	--	40	10	30	--	--	--	--
DEC 30...	30	--	--	30	10	20	--	--	--	--
JAN 13...	50	--	--	20	10	10	--	--	--	--
FEB 04...	360	--	--	40	30	10	--	--	--	--
MAR 05...	90	--	--	40	30	10	--	--	--	--
APR 14...	10	--	--	50	20	30	--	--	--	--
MAY 18...	20	--	--	50	20	30	--	--	--	--
JUN 10...	70	--	--	70	40	30	--	--	--	--
SEP 02...	130	11	.2	100	70	30	<1	6	20	<.01

DATE	ARSENIC TOTAL IN BOTTOM MATERIAL (UG/G AS AS)	CADMIUM RECOV. FM BOTTOM MATERIAL (UG/G AS CD)	CHROMIUM, RECOV. FM BOTTOM MATERIAL (UG/G)	COBALT, RECOV. FM BOTTOM MATERIAL (UG/G AS CO)	COPPER, RECOV. FM BOTTOM MATERIAL (UG/G AS CU)	IRON, RECOV. FM BOTTOM MATERIAL (UG/G AS FE)	LEAD, RECOV. FM BOTTOM MATERIAL (UG/G AS PB)	MANGANESE, RECOV. FM BOTTOM MATERIAL (UG/G)	MERCURY RECOV. FM BOTTOM MATERIAL (UG/G AS HG)	SELENIUM, TOTAL IN BOTTOM MATERIAL (UG/G)	ZINC, RECOV. FM BOTTOM MATERIAL (UG/G AS ZN)	COAL IN BOTTOM MATERIAL (GM/KG)
SEP 02...	<1	<1	10	10	2	5600	<10	150	<.01	<1	<10	9.00

03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV					
25...	1200	115	11	3.4	--
DEC					
30...	1530	38	1	.10	--
JAN					
13...	1645	34	1	.09	--
FEB					
04...	1600	242	17	11	--
10...	1500	1090	550	1620	91
11...	1245	2480	156	1050	--
MAR					
04...	2200	292	56	44	95
05...	1230	475	34	44	--
30...	1145	2100	255	1450	94
30...	1610	2390	175	1130	96
30...	1945	2590	164	1150	96
31...	0210	2100	105	595	95
31...	0850	1250	78	263	93
APR					
14...	1100	213	13	7.5	--
MAY					
18...	1200	56	9	1.4	--
JUN					
10...	1545	165	35	16	--
SEP					
02...	0900	44	46	5.5	--

03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.—Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	9.0	7.0	6.5	5.5	7.5	7.0	---	---
2			---	---	9.5	8.5	6.5	5.5	7.5	6.0	---	---
3			---	---	8.0	7.0	6.0	4.5	6.0	4.5	---	---
4			---	---	8.0	7.0	5.5	4.0	5.5	4.5	---	---
5			---	---	8.5	7.0	4.0	2.5	5.5	4.0	10.5	10.0
6			12.0	10.0	8.5	7.0	3.5	2.5	7.0	5.5	11.5	9.5
7			12.5	10.0	9.0	8.0	4.5	3.5	7.0	6.0	---	---
8			14.0	11.5	10.0	8.5	3.5	2.5	8.5	6.5	---	---
9			14.0	13.0	11.5	10.0	4.5	3.5	7.5	6.0	11.0	9.0
10			14.5	13.0	11.5	10.0	4.0	3.0	---	---	11.0	8.5
11			13.5	11.5	10.0	9.5	3.0	2.0	---	---	11.5	9.5
12			12.0	10.5	9.0	8.0	2.5	1.0	---	---	11.5	9.0
13			11.0	9.5	9.0	7.5	2.5	.5	---	---	11.5	8.5
14			11.5	10.5	8.5	7.0	3.5	2.0	---	---	12.5	9.5
15			12.5	11.5	7.5	6.5	4.0	2.5	---	---	11.0	9.0
16			13.5	12.5	8.5	7.5	3.5	2.5	---	---	12.0	10.0
17			13.5	12.5	8.5	7.5	3.5	2.0	---	---	12.0	9.0
18			12.5	10.5	7.5	6.5	3.0	1.5	---	---	11.5	10.0
19			10.5	9.5	7.5	7.0	4.0	2.0	---	---	10.5	9.0
20			9.5	8.0	7.0	5.5	4.5	3.5	---	---	11.5	8.5
21			8.5	7.5	5.5	4.5	5.0	4.5	---	---	11.0	8.5
22			7.5	7.0	4.5	3.5	5.5	5.0	---	---	10.5	9.0
23			9.0	7.5	5.5	4.0	7.0	5.5	---	---	9.5	9.0
24			11.0	9.0	6.5	5.5	7.0	5.5	---	---	11.0	8.0
25			11.0	10.5	6.0	4.0	7.0	5.5	---	---	12.0	9.0
26			10.0	9.5	4.5	4.0	8.5	6.5	---	---	13.0	10.0
27			9.5	9.0	5.0	4.0	9.0	8.5	---	---	14.0	11.0
28			9.0	8.0	5.0	3.5	9.0	8.0	---	---	15.0	12.0
29			8.5	7.5	6.0	5.0	8.5	7.0	---	---	15.0	13.0
30			8.5	7.0	6.0	6.0	8.5	7.5	---	---	15.0	13.0
31			---	---	7.0	5.5	8.0	6.5	---	---	15.0	13.5
MONTH			14.5	7.0	11.5	3.5	9.0	.5	8.5	4.0	15.0	8.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	14.0			---	---	23.5	22.5	22.5	22.0	23.0	22.0
2	15.0	13.5			---	---	22.5	22.0	23.5	21.5	23.0	22.0
3	15.0	13.0			---	---	22.5	21.5	24.0	22.0	23.0	22.5
4	16.5	14.0			---	---	22.5	21.5	24.0	22.5	24.0	22.5
5	16.0	14.5			20.5	20.0	22.5	21.5	25.0	22.5	23.5	22.5
6	15.0	13.0			21.0	19.5	23.5	22.0	25.5	23.5	23.0	22.0
7	14.5	12.0			20.0	19.5	24.0	22.5	25.0	23.5	23.0	22.0
8	---	---			22.0	19.0	25.0	23.0	24.5	23.5	22.5	21.0
9	---	---			22.0	20.0	25.5	24.0	24.5	22.5	21.0	19.5
10	---	---			22.0	20.5	25.5	24.0	24.0	22.5	20.5	19.0
11	---	---			21.0	20.0	25.0	23.5	24.0	22.5	21.0	19.5
12	---	---			21.5	19.5	26.0	24.0	24.5	22.5	21.0	19.5
13	---	---			22.0	20.5	26.0	24.5	24.5	22.5	21.5	19.5
14	---	---			23.0	20.5	26.0	24.5	24.0	22.5	21.5	20.0
15	---	---			23.5	21.0	26.5	24.5	24.0	22.5	21.5	20.5
16	16.5	15.5			23.5	21.5	26.5	24.5	24.0	23.0	21.5	20.5
17	16.5	15.5			23.0	22.0	26.0	24.5	24.0	23.0	20.0	18.0
18	18.5	15.5			22.5	21.0	26.0	24.0	23.5	22.0	18.0	16.0
19	19.0	16.5			22.5	21.0	26.0	25.0	22.0	21.5	17.0	15.0
20	18.5	17.5			22.5	21.5	26.0	24.5	21.5	21.0	17.0	15.0
21	18.5	16.0			23.5	22.0	26.0	24.0	21.5	20.5	17.0	15.0
22	17.5	16.5			24.0	22.5	25.5	23.5	22.0	20.5	18.0	15.5
23	17.5	16.5			24.5	23.0	25.0	23.0	22.5	20.5	18.5	17.0
24	17.5	15.5			24.5	22.5	25.5	23.5	23.0	21.5	18.0	16.0
25	17.0	14.5			25.0	23.0	25.5	23.5	23.5	21.5	18.0	15.5
26	18.0	14.5			24.5	23.0	25.5	24.5	23.0	21.5	18.5	16.0
27	18.5	15.0			23.5	22.0	25.5	23.5	23.0	21.5	19.0	16.5
28	19.0	15.5			23.5	22.0	25.5	24.0	23.0	21.0	19.0	17.5
29	18.5	16.5			23.5	22.0	25.0	24.0	23.0	21.0	18.5	16.0
30	18.5	16.5			23.5	22.0	24.0	23.0	23.0	21.5	18.0	15.5
31	---	---			---	---	23.5	22.5	23.0	21.0	---	---
MONTH	19.0	12.0			25.0	19.0	26.5	21.5	25.5	20.5	24.0	15.0

03570504 COLE CITY CREEK NEAR SOUTH PITTSBURG, TENN.

LOCATION.—Lat 34°59'11", long 85°35'52", Marion County, Hydrologic Unit 06020001, at bridge on county road, 0.2 mi (0.3 km) from Tennessee-Georgia State Line and 6.6 mi (10.6 km) east of South Pittsburg.
DRAINAGE AREA.—25.6 mi2 (66.3 km2).
PERIOD OF RECORD.—April 1979 to September 1981 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS)	PH (UNITS)	PH LAB (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
APR								
14...	0730	.20	61	58	6.3	6.6	13.5	8.0

DATE	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	ALKA-LINITY LAB (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER DAY)	SEDI-MENT, SUS-PENDED (MG/L)
APR							
14...	.2	10	12	8.8	40	.02	4

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
APR							
14...	.00	310	300	10	10	0	10

DATE	TIME	COAL IN BOTTOM MATE-RIAL (GM/KG)
SEP		
02...	0700	6.00

LAKES IN TENNESSEE RIVER BASIN

03553000 NOTTELY LAKE.--Lat 34°57'29", long 84°05'22", Union County, Hydrologic Unit 06020002, at dam on Nottely River, 1.3 mi (2.1 km) upstream from Dooley Creek, 1.7 mi (2.7 km) southwest of Ivylog, 2.5 mi (4.0 km) upstream from Georgia-North Carolina State line, and at mile 21.0 (33.8 km). DRAINAGE AREA, 214 mi^2 (554 km^2). PERIOD OF RECORD, January 1942 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929.

Lake is formed by rock and rolled earthfill dam with side channel spillway equipped with flashboards. Storage began Jan. 24, 1942; water in lake first reached minimum pool elevation Jan. 26, 1942. Total capacity at elevation 1,780.00 ft (542.54 m), top of flashboards, is 87,900 ft^3/s-days (215.1 hm^3), of which 59,100 ft^3/s-days (144.6 hm^3) is controlled storage above elevation 1,735.00 ft (528.83 m), normal minimum pool. Lake is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 94,100 ft^3/s-days (230.3 hm^3) Apr. 20, 1943, elevation, 1,780.50 ft (542.696 m); maximum elevation, 1,781.47 ft (542.992 m) May 28, 1973; minimum (after first filling), 200 ft^3/s-days (0.489 hm^3) Oct. 6, 1947, elevation, 1,638.6 ft (499.44 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 61,900 ft^3/s-days (151.5 hm^3) June 8, elevation, 1,765.55 ft (538.140 m); minimum, 34,800 ft^3/s-days (85.2 hm^3) Feb. 7, elevation, 1,742.17 ft (531.013 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1753.78	46600	-	-
Oct. 31................	1752.48	45100	-1500	-24
Nov. 30................	1750.41	42900	-2200	-37
Dec. 31................	1748.68	41100	-1800	-29
CAL YR 1980	-	-	+2500	+3
Jan. 31................	1743.22	35800	-5300	-86
Feb. 28................	1749.12	41500	-5700	+103
Mar. 31................	1753.28	46000	+4500	+73
Apr. 30................	1758.84	52600	+6600	+111
May 31................	1763.51	59000	+6400	+104
June 30................	1764.46	60300	+1300	+22
July 31................	1763.18	58500	-1800	-29
Aug. 31................	1759.73	53800	-4700	-76
Sept. 30................	1757.00	50300	-3500	-59
WTR YR 1981	-	-	+3700	+5

03558500 BLUE RIDGE LAKE.--Lat 34°52'52", long 84°16'49", Fannin County, Hydrologic Unit 06020003, 400 ft (122 m) upstream from Blue Ridge Dam on Toccoa River, 2.5 mi (4.0 km) northeast of Blue Ridge, and at mile 53.0 (85.3 km). DRAINAGE AREA, 232 mi^2 (601 km^2). PERIOD OF RECORD, December 1930 to current year (prior to Aug. 16, 1939, only midnight readings available). GAGE, water-stage recorder. Datum of gage is at Tennessee Electric Power Co. datum; to convert to National Geodetic Vertical Datum of 1929, subtract 0.18 ft (0.055 m) from elevations given herein.

Lake is formed by earth dam. Spillway equipped with five taintor gates 15 ft (4.57 m) high by 22 ft (6.71 m) wide. Dam completed and storage began Dec. 6, 1930. Total capacity at elevation 1,691.00 ft (515.42 m), top of gates, is 98,800 ft^3/s-days (241.8 hm^3), of which 92,800 ft^3/s-days (227.1 hm^3) is controlled storage above 1,590.00 ft (484.63 m), normal minimum pool. Lake is used for power and recreation. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents recorded, 102,100 ft^3/s-days (249.8 hm^3) Feb. 11, 1946, elevation, 1,691.54 ft (515.581 m); minimum (after first filling), 6,500 ft^3/s-days (15.91 hm^3) Jan. 16, 1956, elevation, 1,587.75 ft (483.95 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 73,000 ft^3/s-days (178.6 hm^3) June 16, elevation, 1,674.45 ft (510.372 m); minimum, 18,800 ft^3/s-days (46.0 hm^3) Sept. 30, elevation, 1,618.74 ft (493.392 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1666.90	62800	-	-
Oct. 31................	1634.73	48500	-14300	-233
Nov. 30................	1638.67	52800	+4300	+72
Dec. 31................	1647.81	41400	-11400	-185
CAL YR 1980	-	-	+15300	+21
Jan. 31................	1631.50	27200	-14200	-231
Feb. 28................	1642.13	36000	+8800	+158
Mar. 31................	1652.67	46300	+10300	+168
Apr. 30................	1664.60	59900	+13600	+229
May 31................	1670.50	67500	+7600	+124
June 30................	1671.18	68400	+900	+15
July 31................	1661.37	56000	-12400	-202
Aug. 31................	1642.10	35900	-20100	-327
Sept. 30................	1618.75	18800	-17100	-287
WTR YR 1981	-	-	-44000	-61

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are useable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements and peak flow determinations are made at other sites not included in the partial-record program. These data are generally obtained for droughts or floods to give better areal coverage to those events.

Low-flow partial-record stations

Measurements of streamflow made at low-flow partial-record stations located in the area covered by this report are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements when correlated with the discharge of a nearby stream with known low-flow characteristics (usually a continuous-record station) will indicate the low-flow potentiality of the stream. The column headed "period of record" indicates the water years in which measurements were made at the site.

Discharge measurements made at low-flow partial-record stations during water year 1981

					Measurements	
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Discharge (ft^3/s)
		Savannah River Basin				
02187335	Cedar Creek near Hartwell, Ga.	Lat 34°20'06", long 82°56'26", Hart County, Hydrologic Unit 03060103, at State Highway 172, 1 mile south of Hartwell.	2.27	1979-81	9-1-81	0.52
02187780	Coldwater Creek near Ruckersville, Ga.	Lat 34°12'52", long 82°48'07", Elbert County, Hydrologic Unit 03060103, at State Highway 368, 3.5 miles north of Ruckersville.	67.5	1943, 1953, 1955, 1979, 1981	9-1-81	12
02189014	Middle Fork Broad River near Homer, Ga.	Lat 34°26'20", long 83°25'38", Banks County, Hydrologic Unit 03060104, at State Highway 184, 6.5 miles north of Homer.	45.8	1955, 1979-81	9-1-81	14
02191225	Hickory Level Creek near Maysville, Ga.	Lat 34°17'27", long 83°31'50", Banks County, Hydrologic Unit 03070104, at State Highway 98, 3 miles north of Maysville.	11.3	1943, 1953, 1955, 1979-81	9-1-81	3.8
02191244	Nails Creek near Carnesville, Ga.	Lat 34°16'32", long 83°16'33", Franklin County, Hydrologic Unit 03060104, at State Highway 106, 7 miles south of Carnesville.	47.2	1979-81	9-1-81	15
02191670	South Fork Broad River at Ila, Ga.	Lat 34°09'55", long 83°17'52", Madison County, Hydrologic Unit 03060104, at State Highway 106, at Ila.	17.0	1953, 1955, 1979-81	9-1-81	1.9
02191740	Big Clouds Creek near Carlton, Ga.	Lat 34°01'14", long 83°04'10", Oglethorpe County, Hydrologic Unit 03060104, at county road, 1 mile southwest of Carlton.	47.3	1943, 1953, 1955-56, 1979-81	9-1-81	4.2
02191980	Clark Creek near Tignall, Ga.	Lat 33°53'50", long 82°48'45", Wilkes County, Hydrologic Unit 03060104, at county road, 6 miles northwest of Tignall.	42.6	1943, 1953, 1955, 1979-81	9-1-81	1.2
02192435	Soap Creek near Lincolnton, Ga.	Lat 33°48'57", long 82°29'44", Lincoln County, Hydrologic Unit 03060103, at county road, 2 miles northwest of Lincolnton.	16.7	1974, 1979-81	9-2-81	.37
02195470	Uchee Creek near Evans, Ga.	Lat 33°34'02", long 82°11'01", Columbia County, Hydrologic Unit 03060106, at State Highway 104, 4 miles northwest of Evans.	58.3	1953, 1955, 1979-81	9-2-81	1.3
		Altamaha River Basin				
02217270	Mulberry River near Flowery Branch, Ga.	Lat 34°07'46", long 83°49'52", Hall County, Hydrologic Unit 03070101, at State Highway 211, 10 miles east of Flowery Branch.	43.2	1953, 1955, 1979-81	9-3-81	7.3

Low-flow partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Measurements	
					Date	Discharge (ft³/s)
		Altamaha River Basin--Continued				
02217295	Mulberry River near Hoschton, Ga.	Lat 34°03'18", long 83°43'03", Jackson-Barrow County line, Hydrologic Unit 03070101, at State Highway 53, 3 miles southeast of Hoschton.	117	1951, 1955, 1979-81	9-3-81	28
		Apalachicola River Basin				
02331360	Hazel Creek near Clarkesville, Ga.	Lat 34°35'09", long 83°31'07", Habersham County, Hydrologic Unit 03130001, at county road 1 mile south of Clarkesville.	16.8	1955, 1979-81	9-3-81	5.6
02333310	Tesnatee Creek near Cleveland, Ga.	Lat 34°35'44", long 83°46'41", White County, Hydrologic Unit 03130001, at U.S. Highway 129, 1 mile north of Cleveland.	9.89	1953 1955, 1979-81	9-3-81	4.2
02333800	Cane Creek at Dahlonega, Ga.	Lat 34°31'44", long 84°00'25", Lumpkin County, Hydrologic Unit 03130001, at U.S. Highway 19 at Dahlonega.	21.9	1951, 1953, 1955, 1979-81	9-3-81	11
02335560	Bentley Creek near Cumming, Ga.	Lat 34°10'43", long 84°13'16", Forsyth County, Hydrologic Unit 03130001, at State Highway 371, 5 miles southwest of Cumming.	8.56	1955, 1980-81	9-3-81	2.0
02343940	Sowhatchee Creek at Cedar Springs, Ga.	Lat 31°10'40", long 85°02'37", Early County, Hydrologic Unit 03130004, at State Highway 273 at Cedar Springs.	64.2	1979-81	1-6-81	15
02350080	Lime Creek near Cobb, Ga.	Lat 32°02'06". long 83°59'33", Sumter County, Hydrologic Unit 03130006, at county road, 5 miles north of Cobb.	61.8	1954, 1957 1974, 1979, 1981	1-5-81	16
02350300	Cedar Creek near Cordele, Ga.	Lat 31°54'47", long 83°51'12", Crisp County, Hydrologic Unit 03130006, at State Highway 257, 5 miles south of Cordele.	34.0	1954, 1961, 1965-68, 1973, 1979-81	1-5-81	3.1
02350527	Mill Creek near Albany, Ga.	Lat 31°40'04", long 83°59'48", Worth County, Hydrologic Unit 03130006, at State Highway 257, 10 miles northeast of Albany.	44.0	1979-81	1-6-81 7-30-81	14 15
02352970	Cooleewahee Creek near Albany, Ga.	Lat 31°30'13", long 84°17'28", Dougherty County, Hydrologic Unit 03130008, at State Highway 62, 8 miles west of Albany.	60.1	1955, 1979-81	1-6-81	.44
		Mobile River Basin				
02382838	Salacoa Creek at Fairmount, Ga.	Lat 34°25'07", long 84°41'55", Gordon County, Hydrologic Unit 03150102, at U.S. Highway 411, 1 mile south of Fairmount.	44.1	1980-81	9-2-81	2.9
02388900	Etowah River near Dahlonega, Ga.	Lat 34°30'53", long 84°03'37", Lumpkin County, Hydrologic Unit 03150104, at State Highway 9, 4 miles west of Dahlonega.	69.7	1951, 1953, 1955, 1959, 1979-81	9-3-81	53
02390140	Settingdown Creek near Ball Ground, Ga.	Lat 34°17'35", long 84°15'49", Cherokee Countv. Hydrologic Unit 03150104, at State Highway 369, 8 miles southeast of Ball Ground.	49.3	1955, 1959, 1980-81	9-3-81	11
02393020	Noonday Creek near Woodstock, Ga.	Lat 34°06'25", long 84°32'50", Cherokee County, Hydrologic Unit 03150104, 1.7 miles west of Woodstock.	47.9	1974, 1980-81	9-3-81	19

Discharge measurements made at miscellaneous sites

The following table contains discharge measurements made at sites that are not currently operated as a continuous-record gaging station or low-flow partial-record station. The measurements made at discontinued gaging stations are primarily used as index discharges to low-flow partial-record stations for correlation purposes. These measurements were made during periods of base flow.

Discharge measurements made at miscellaneous sites during water year 1981

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Savannah River Basin				
02188500	Beaverdam Creek at Dewy Rose, Ga. (Prior to 1975, published as South Beaverdam Creek.)	Lat 34°10'32", long 82°56'38", Elbert County, Hydrologic Unit 03060103, at county road, 1 mile northeast of Dewy Rose.	35.8	1963-77†, 1979-81	9-1-81	4.6
02191200	Hudson River at Homer, Ga.	Lat 34°20'30", long 83°29'10", Banks County, Hydrologic Unit 03060104, at State Highway 15, at Homer.	61.1	1959-79†, 1980-81	9-1-81	19
		Altamaha River Basin				
02217000	Allen Creek at Talmo, Ga.	Lat 34°11'34", long 83°43'11", Jackson County, Hydrologic Unit 03070101, at U.S. Highway 129, at Talmo.	17.3	1951-71†, 1979-81	9-3-81	5.1
		Apalachicola River Basin				
02331000	Chattahoochee River near Leaf, Ga.	Lat 34°34'37", long 83°38'09", Habersham County, Hydrologic Unit 03130001, at State Highway 115, 1.5 miles east of Leaf.	150	1940-71†, 1979-81	9-3-81	111
02353400	Pachitla Creek near Edison, Ga.	Lat 31°33'17", long 84°40'43", Calhoun County, Hydrologic Unit 03130009, at State Highway 37, 3.6 miles east of Edison.	188	1951, 1954, 1959-71†, 1973-74, 1979-81	1-3-81	131
02357000	Spring Creek near Iron City, Ga.	Lat 31°02'23", long 84°44'18", Decatur County, Hydrologic Unit 03130010, at county bridge, 5.5 miles northeast of Iron City.	a485	1938-71†, 1977-78†, 1981	10-13-80 1-6-81 5-14-81 7-13-81 7-27-81 8-13-81 9-18-81	31 38 50 5.3 9.1 27 44
		Mobile River Basin				
02382000	Scarecorn Creek at Hinton, Ga.	Lat 34°28'04", long 84°35'30", Pickens County, Hydrologic Unit 03150102, at State Highway 53, 0.2 mile southwest of Hinton.	21.3	1939-42†, 1959-74†, 1980-81	9-2-81	5.2
02383000	Rock Creek near Fairmount, Ga.	Lat 34°21'32", long 84°46'46", Bartow County, Hydrologic Unit 03150102, at State Highway 140, 7 miles southwest of Fairmount.	6.17	1952-74†, 1979-81	9-2-81	1.2
02389000	Etowah River near Dawsonville, Ga.	Lat 34°22'57", long 84°03'21", Dawson County, Hydrologic Unit 03150104, near State Highway 53, 4 miles southeast of Dawsonville.	107	1940-76†, 1979-81	9-3-81	73
02389300	Shoal Creek near Dawsonville, Ga.	Lat 34°25'25", long 84°08'40", Dawson County, Hydrologic Unit 03150104, near State Highway 53, 1 mile west of Dawsonville.	21.7	1958-74†, 1979-81	9-3-81	10
02392500	Little River near Roswell, Ga.	Lat 34°07'09", long 84°23'18", Fulton County, Hydrologic Unit 03150104, at State Highway 140, 7 miles north of Roswell.	60.0	1947-76†, 1979-81	9-3-81	13

† Operated as a continuous-record gaging station.
a Approximately.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Savannah River Basin					
02191280	Mill Shoal Creek near Royston, Ga.	Lat 34°16'13", long 83°06'08", Hart County, Hydrologic Unit 03060103, at culvert on State Highway 17, 1.2 miles southeast of Royston.	0.32	1964-81	9-8-81	4.74	154
02191300	Broad River above Carlton, Ga. (Prior to 1918 published as near Carlton.)	Lat 34°04'24", long 83°00'12", Madison-Elbert County line, Hydrologic Unit 03060104, at State Highway 72, 2.8 miles northeast of Carlton.	760	1898-1912, 1913-18g, 1920-81g	2-11-81	13.72	6,900
02191930	Buffalo Creek near Lexington, Ga.	Lat 33°46'40", long 83°03'01", Oglethorpe County, Hydrologic Unit 03060104, at culvert on State Highway 22, 7 miles southeast of Lexington.	5.80	1964-81	2-11-81	4.75	328
02192300	Hog Fork Fishing Creek tributary near Tignall, Ga.	Lat 33°49'05", long 82°45'21", Wilkes County, Hydrologic Unit 03060104, at culvert on State Highway 17, 4.2 miles south of Tignall.	.097	1959-81	2-11-81	5.87	11
02196570	Raes Creek tributary No. 2 at Augusta, Ga.	Lat 33°30'19", long 82°02'34", Richmond County, Hydrologic Unit 03060106, at culvert on Skinner Mill Road at junction with Boy Scout Road, at Augusta.	.66	1979-81	8-12-81	5.83	(†)
02196725	Oates Creek at Augusta, Ga.	Lat 33°27'19", long 82°00'23", Richmond County, Hydrologic Unit 03060106, at culvert on White Road at Augusta.	2.13	1979-81	8-12-81	4.85	156
02196760	Rocky Creek tributary at Augusta, Ga.	Lat 33°27'07", long 82°02'57", Richmond County, Hydrologic Unit 03060106, at culvert on U.S. Highways 78 and 278 at Augusta.	1.65	1979-81	8-10-81	4.32	274
02197190	McBean Creek near McBean, Ga.	Lat 33°14'12", long 82°02'38", Richmond-Burke County line, Hydrologic Unit 03060106, at State Highway 21, 5.5 miles west of McBean.	41.4	1963-81	2-11-81	4.17	257
		Ogeechee River Basin					
02200400	Rocky Comfort Creek near Grange, Ga.	Lat 33°06'09", long 82°34'02", Jefferson County, Hydrologic Unit 03060201, at State Highway 88, 1.5 miles northeast of Grange.	188	1979-81	2-28-79 3-14-80 2-11-81	14.41 14.82 11.76	3,610 4,020 1,650
02200930	Ogeechee River tributary near Louisville, Ga.	Lat 32°55'20", long 82°18'49", Jefferson County, Hydrologic Unit 03060201, at culvert on State Highway 17, 8.5 miles southeast of Louisville.	14.2	1965-81		(d)	<90
02200950	Ogeechee River near Wadley, Ga.	Lat 32°52'11, long 82°19'11", Jefferson County, Hydrologic Unit 03060201, at bridge on State Highway 78, 4.5 miles east of Wadley.	a990	1970-81	2-13-81	11.63	7,110

† Discharge not determined.
a Approximately.
d Peak stage did not reach bottom of gage.
g Maximum gage heights computed from graph based on gage readings.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Ogeechee River Basin--Continued					
02201350	Buckhead Creek near Waynesboro, Ga.	Lat 32°58'21", long 82°07'15", Burke County, Hydrologic Unit 03060201, at State Highway 56, 10 miles southwest of Waynesboro.	a64	1963-81	4-1-81	5.22	336
02201800	Richardson Creek near Millen, Ga.	Lat 32°43'23", long 81°58'35", Jenkins County, Hydrologic Unit 03060202, at State Highway 67, 6 miles south of Millen.	a43	1963-81	4-1-81	3.32	195
02202000	Ogeechee River at Scarboro, Ga.	Lat 32°42'38", long 81°52'46", Jenkins County, Hydrologic Unit 03060202, at abandoned highway bridge at Scarboro, 7.5 miles southeast of Millen.	a1,940	1938-71‡, 1972-81	2-20-81	8.90	7,500
02202865	Canoochee River near Metter, Ga.	Lat 32°31'20", long 82°05'25", Candler County, Hydrologic Unit 03060203, at State Highways 23 and 121, 5 miles south of Metter.	194	1970-81	2-19-81	8.15	(†)
02202900	Fifteen Mile Creek near Metter, Ga.	Lat 32°23'33", long 82°00'55", Candler County, Hydrologic Unit 03060203, at State Highway 46, 2.5 miles east of Metter.	147	1963-81	4-3-81	4.02	527
02202910	Ten Mile Creek tributary at Pulaski, Ga.	Lat 32°23'18", long 81°58'17", Candler County, Hydrologic Unit 03060203, at culvert on State Highway 46, 0.8 mile west of Pulaski.	1.14	1965-81	4-2-81	3.21	47
02203280	Canoochee River near Daisy, Ga.	Lat 32°08'54", long 81°46'54", Evans County, Hydrologic Unit 03060203, at U.S. Highway 280, 3 miles east of Daisy.	833	1970-81	4-6-81	8.43	2,350
		Altamaha River Basin					
02203800	South River at Atlanta, Ga.	Lat 33°40'46", long 84°18'30", DeKalb County, Hydrologic Unit 03070103, at Bouldercrest Drive at Atlanta.	41.5	1951-81	2-11-81	7.55	3,180
02203835	Shoal Creek near Atlanta, Ga.	Lat 33°44'48", long 84°16'50", DeKalb County, Hydrologic Unit 03070103, at culvert on Line Street near Atlanta.	3.43	1974-81		(d)	<536
02203845	Shoal Creek tributary near Atlanta, Ga.	Lat 33°43'05", long 84°15'45", DeKalb County, Hydrologic Unit 03070103, at culvert on Glendale Drive near Atlanta.	.84	1973-78, 1980-81	9-1-81	4.23	335
02203884	Conley Creek near Forest Park, Ga.	Lat 33°38'08", long 84°20'37", Clayton County, Hydrologic Unit 03070103, at culvert on Rock Cut Road near Forest Park.	1.88	1973-78, 1980-81	3-30-81	4.19	379
02204135	Camp Creek tributary near Stockbridge, Ga.	Lat 33°34'35", long 84°08'50", Henry County, Hydrologic Unit 03070103, at culvert on State Highway 155, 5 miles northeast of Stockbridge.	.28	1977-81		(d)	<6
02206500	Yellow River near Snellville, Ga.	Lat 33°51'11", long 84°04'45", Gwinnett County, Hydrologic Unit 03070103, on left bank at downstream side of county highway bridge, 3.2 miles west of Snellville.	134	1943-71‡, 1973-81	2-11-81	8.27	2,140

† Discharge not determined.
‡ Operated as a continuous-record gaging station.
a Approximately.
d Peak stage did not reach bottom of gage.

Crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Dis-charge (ft^3/s)
		Altamaha River Basin--Continued					
02211300	Towaliga River near Jackson, Ga.	Lat 33°15'50", long 84°04'17", Butts County, Hydrologic Unit 03070103, at bridge on State Highway 16, 6.5 miles west of Jackson.	a105	1961-71‡, 1972-81	2-11-81	11.22	2,830
02213350	Tobesofkee Creek below Forsyth, Ga.	Lat 32°59'37", long 83°56'41", Monroe County, Hydrologic Unit 03070103, at State Highway 42, 3 miles west of Forsyth.	53.4	1963-72, 1974-81	2-11-81	2.85	3,700
02214280	Savage Creek near Bullard, Ga.	Lat 32°35'34", long 83°28'11", Twiggs County, Hydrologic Unit 03070104, at U.S. Highway 23, 3 miles southeast of Bullard.	33.0	1979-81	4-2-81	9.55	630
02214820	Mossy Creek near Perry, Ga.	Lat 32°31'15", long 83°43'23", Houston County, Hydrologic Unit 03070104, at U.S. Highway 41, 4.5 miles north of Perry.	92.9	1979-81	3-25-79 3-13-80 4-1-81	7.16 8.19 8.27	440 760 800
02215245	Folsom Creek tributary near Rochelle, Ga.	Lat 32°00'15", long 83°25'58", Wilcox County, Hydrologic Unit 03070104, at culvert on State Highway 233, 4 miles north of Rochelle.	1.44	1965-81	4-1-81	1.55	18
02217400	Mulberry River tributary near Winder, Ga.	Lat 34°03'53", long 83°39'45", Jackson County, Hydrologic Unit 03070101, at culvert on State Highway 11, 6 miles northeast of Winder.	2.68	1965-81		(d)	<280
02217905	Tanyard Creek at Athens, Ga.	Lat 33°57'05", long 83°22'42", Clarke County, Hydrologic Unit 03070101, at culvert on Baxter Street at Athens.	.56	1979-81	9-4-81	8.74	486
02218450	Town Creek near Greensboro, Ga.	Lat 33°38'29", long 83°13'36", Greene County, Hydrologic Unit 03070101, at State Highway 15, 5 miles northwest of Greensboro.	11.9	1964-81	2-11-81	7.55	620
02223349	Big Sandy Creek tributary near Irwinton, Ga.	Lat 32°48'11", long 83°13'37", Wilkinson County, Hydrologic Unit 03070102, at culvert on county road, 1.7 miles southwest of Irwinton.	a0.50	1978-81	4-1-81	.85	5
02223360	Big Sandy Creek near Irwinton, Ga.	Lat 32°45'59", long 83°10'05", Wilkinson County, Hydrologic Unit 03070102, at bridge on U.S. Highway 441, 2 miles south of Irwinton.	177	1970-81	4-1-81	4.16	876
02225150	Ohoopee River near Wrightsville, Ga.	Lat 32°42'50", long 82°45'20", Johnson County, Hydrologic Unit 03070107, at U.S. Highway 319, 2.5 miles west of Wrightsville.	a55	1963-81	2-11-81	5.58	335
02225250	Little Ohoopee River near Swainsboro, Ga.	Lat 32°33'44", long 82°28'03", Emanuel County, Hydrologic Unit 03070107, at U.S. Highway 80, 9 miles west of Swainsboro.	216	1970, 1972, 1980-81	4-2-81	5.74	1,350
02225320	Ohoopee River near Aline, Ga.	Lat 32°20'53", long 82°14'52", Candler-Emanuel County line, Hydrologic Unit 03070107, at bridge on county road, 5 miles west of Aline.	698	1975, 1980-81	4-3-81	11.69	2,550
02225330	Beaver Creek near Cobbtown, Ga.	Lat 32°16'52", long 82°11'27", Tattnall County, Hydrologic Unit 03070107, at culvert on State Highway 152, 3.2 miles west of Cobbtown.	9.58	1965-81	8-8-81	4.42	234

‡ Operated as a continuous-record gaging station.
a Approximately.
d Peak stage did not reach bottom of gage.

Crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi²)	Period of record	Date	Gage height (feet)	Discharge (ft³/s)
		Altamaha River Basin--Continued					
02225350	Pendleton Creek tributary No. 2 near Soperton, Ga.	Lat 32°25'35", long 82°29'52", Treutlen County, Hydrologic Unit 03070107, at culvert on State Highway 86, 6.5 miles northeast of Soperton.	1.68	1965-81	8-8-81	2.08	70
02225850	Beards Creek near Glennville, Ga.	Lat 31°55'26", long 81°52'58", Tattnall-Long County line, Hydrologic Unit 03070106, at State Highway 144, 3 miles east of Glennville.	74.4	1966-81	4-3-81	5.40	840
02226030	Doctors Creek near Ludowici, Ga.	Lat 31°44'07", long 81°42'08", Long County, Hydrologic Unit 03070106, at State Highway 38, 3 miles northeast of Ludowici.	a33	1966-81	4-3-81	5.55	189
		Satilla River Basin					
02226190	Little Creek (formerly published as 02226150, Satilla River tributary) near Willacoochee, Ga.	Lat 31°27'24", long 83°03'02", Coffee County, Hydrologic Unit 03070201, at culvert on State Highway 149, 8.5 miles north of Willacoochee.	6.38	1965-81	8-10-81	2.52	37
02226465	Dryden Creek near Dixie Union, Ga.	Lat 31°20'23", long 82°28'43", Ware County, Hydrologic Unit 0307201, at culvert on county road, 0.7 mile west of Dixie Union.	14.7	1978-81	2-17-81	4.45	(†)
02226580	Big Creek near Hoboken, Ga.	Lat 31°10'28", long 82°11'17", Brantley County, Hydrologic Unit 03070201, at State Highway 50, 2.5 miles west of Hoboken.	a49	1966-81	3-5-81	6.77	(†)
02227000	Hurricane Creek near Alma, Ga.	Lat 31°34'00", long 82°27'50", Bacon County, Hydrologic Unit 03070201, at bridge on U.S. Highway 1, 1.5 miles north of Alma.	150	1952-71‡, 1972-81	8-12-81	5.98	988
02227290	Alabaha River near Blackshear, Ga.	Lat 31°33'44", long 82°28'03", Pierce County, Hydrologic Unit 03070201, at bridge on State Highways 15 and 121, 3 miles north of Blackshear.	a411	1970-81	4-4-81	10.62	1,330
02227422	Crooked Creek tributary near Bristol, Ga.	Lat 31°26'24", long 82°15'03", Pierce County, Hydrologic Unit 03070202, on county road, 2 miles west of Bristol.	.42	1976-81	4-1-81	.62	8
02227990	Satilla River tributary No. 2 at Atkinson, Ga.	Lat 31°13'32", long 81°51'10", Brantley County, Hydrologic Unit 03070201, on county road, 0.3 mile north of Atkinson.	.38	1977-81	8-1-81	1.54	65
02228050	Buffalo Creek at Hickox, Ga.	Lat 31°09'22", long 81°59'29", Brantley County, Hydrologic Unit 03070201, at State Highway 23 at Hickox.	a59	1966-81	2-18-81	6.14	(†)
02228055	Satilla River tributary No. 3 near Winokur, Ga.	Lat 30°59'59", long 81°57'30", Charlton County, Hydrologic Unit 03070201, at county road, 5.3 miles southeast of Winokur.	1.91	1980-81	2-12-81	6.24	(†)
		Suwannee River basin					
02314700	Suwannoochee Creek near Thelma, Ga.	Lat 30°49'18", long 82°50'28", Clinch-Echols County line, Hydrologic Unit 03110201, at State Highway 187, 1.2 miles west of Thelma.	232	1929, 1963-81		(d)	<700

† Discharge not determined.
‡ Operated as a continuous-record gaging station.
a Approximately.
d Peak discharge did not reach bottom of gage.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft /s)
		Suwannee River basin--Continued					
02316390	Alapaha River at Lakeland, Ga.	Lat 31°02'46", long 83°02'37", Lanier County, Hydrologic Unit 03110202, at bridge on U.S. Highways 129 and 221 at Lakeland.	1,080	1970-81		(d)	<1,200
02317710	Withlacoochee River tributary near Nashville, Ga.	Lat 31°11'54", long 83°17'17", Berrien County, Hydrologic Unit 03110202, at culvert on State Highway 76, 2.2 miles southwest of Nashville.	.86	1960-81		(d)	<15
02317734	New River near Nashville, Ga.	Lat 31°10'37", long 83°19'20", Berrien-Cook County line, Hydrologic Unit 03110203, at bridge on State Highway 76, 5 miles west of Nashville.	146	1970-81		(d)	<700
02317775	Daniels Creek near Ashburn, Ga.	Lat 31°40'40", long 83°45'06", Turner County, Hydrologic Unit 03110204, at culvert on State Highway 32, 6.2 miles west of Ashburn.	1.11	1965-81	3-13-81	1.12	11
02317780	Lime Sink Creek near Sycamore, Ga.	Lat 31°36'20", long 83°40'31", Turner County, Hydrologic Unit 03110204, at culvert on secondary road 1181, 4.5 miles southwest of Sycamore.	.68	1965-81		(d)	<10
02317810	Little River tributary No. 2 near Tifton, Ga.	Lat 31°25'30", long 83°34'23", Tift County, Hydrologic Unit 03110304, at culvert on secondary road 546, 4 miles southwest of Tifton.	.47	1965-81		(d)	<5
02317870	Warrior Creek near Sumner, Ga.	Lat 31°21'45", long 83°46'11", Worth County, Hydrologic Unit 03110204, at county road, 10.8 miles south of Sumner.	a109	1966-81	2-18-81	7.69	100
02318600	Okapilco Creek near Berlin, Ga.	Lat 31°02'48", long 83°37'02", Colquitt County, Hydrologic Unit 03110203, on county road, 1 mile south of Berlin.	101	1963-81	4-3-81	8.85	860
02318725	Okapilco Creek at Quitman, Ga.	Lat 30°47'09", long 83°31'34", Brooks County, Hydrologic Unit 03110203, at U.S. Highway 84 at Quitman.	278	1970-73, 1978-81	4-5-81	9.73	792
		Aucilla River Basin					
02326200	Aucilla River near Boston, Ga.	Lat 30°46'44", long 83°48'12", Thomas County, Hydrologic Unit 03110103, at bridge on State Highway 133, 1.2 miles south of Boston.	a81	1962-81	4-5-81	4.98	262
		Ochlockonee River Basin					
02327350	Ochlockonee River tributary near Coolidge, Ga.	Lat 31°01'33", long 83°57'32", Thomas County, Hydrologic Unit 03120002, at culvert on State Highway 202, 5.5 miles west of Coolidge.	1.81	1965-81	4-3-81	1.85	124
02327355	Ochlockonee River near Coolidge, Ga.	Lat 31°00'08", long 83°56'21", Thomas County, Hydrologic Unit 03120002, at State Highway 188, 4 miles west of Coolidge.	260	1981	4-6-81	9.23	1,040
02327415	Little Ochlockonee River near Moultrie, Ga.	Lat 31°07'02", long 83°58'42", Colquitt County, Hydrologic Unit 03120002, at State Highway 111, 10 miles west of Moultrie.	44.8	1981	4-4-81	6.06	420
02327550	Barnetts Creek near Meigs, Ga.	Lat 31°01'32", long 84°08'14", Grady County, Hydrologic Unit 03120002, at State Highway 111, 4.2 miles southwest of Meigs.	15.0	1965-75, 1978-81	2-11-81	4.09	375

a Approximately.
d Peak stage did not reach bottom of gage.

Crest-stage partial-record stations—Continued

Station No.	Station name	Location	Drainage area (mi2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Ochlockonee River Basin—Continued					
02327810	Ochlockonee River near Cairo, Ga.	Lat 30°47'30", long 84°09'16", Grady County, Hydrologic Unit 03120002, at bridge on State Highway 93, 5 miles south of Cairo.	747	1970-81	4-7-81	18.63	2,700
02327860	Popple Branch near Whigham, Ga.	Lat 30°55'36", long 84°15'18", Grady County, Hydrologic Unit 03120002, at culvert on State Highway 179, 3.2 miles north of Whigham.	1.71	1977-81	4-3-81	2.58	128
		Apalachicola River Basin					
02336080	North Fork Peachtree Creek near Chamblee, Ga.	Lat 33°51'43", long 84°17'13", DeKalb County, Hydrologic Unit 03130001, at culvert on Shallowford Road near Chamblee.	19.1	1974-81	2-11-81	7.76	978
02336090	North Fork Peachtree Creek tributary near Chamblee, Ga.	Lat 33°50'53", long 84°17'57", DeKalb County, Hydrologic Unit 03130001, at culvert on Meadowcliff Drive near Chamblee.	.32	1974-81	3-30-81	3.30	39
02336102	North Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°50'20", long 84°19'19", DeKalb County, Hydrologic Unit 03130001, at culvert on Drew Valley Road near Atlanta.	2.19	1973-78, 1980-81	9-1-81	5.67	616
02336238	South Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°47'11", long 84°20'29", DeKalb County, Hydrologic Unit 03130001, at culvert on East Rock Springs Road near Atlanta.	.90	1974-81	7-6-81	3.10	360
02336700	South Utoy Creek tributary at East Point, Ga.	Lat 33°41'25", long 84°28'05", Fulton County, Hydrologic Unit 03130002, at culvert on Headland Drive at East Point.	.79	1964-69‡, 1970-78, 1980-81	9-1-81	4.37	285
02337448	Hurricane Creek tributary near Fairplay, Ga.	Lat 33°35'03", long 84°50'54", Douglas County, Hydrologic Unit 03130002, at culvert on State Highway 5, 8 miles east of Fairplay.	.33	1977-81	5-27-81	4.68	42
02341542	Flat Rock Creek at Columbus, Ga.	Lat 32°32'57", long 84°53'07", Muscogee County, Hydrologic Unit 03130003, at bridge on Warm Springs Road at Columbus.	6.54	1977-81	8-3-77 1-25-78 4-13-79 4-13-80 4-1-81	7.21 5.90 5.89 5.80 7.62	1,910 700 692 620 2,320
02341544	Mill Branch at Columbus, Ga.	Lat 32°28'19", long 84°53'58", Muscogee County, Hydrologic Unit 03130003, at culvert on Chalbena Road at Columbus.	1.58	1977-81	6-3-78 4-1-81	b7.10 6.18	686 734
02341546	Bull Creek tributary at Columbus, Ga.	Lat 32°28'38", long 84°55'36", Muscogee County, Hydrologic Unit 03130003, at culvert on Woodland Drive at Columbus.	.26	1977-81	4-13-80 4-1-81	4.65 4.84	c88 96
02341548	Lindsey Creek tributary at Columbus, Ga.	Lat 32°31'33", long 84°56'21", Muscogee County, Hydrologic Unit 03130003, at culvert on Canberra Avenue at Columbus.	1.42	1977-81	4-13-79 8-14-80 4-1-81	6.26 7.00 7.73	c448 c525 669
02341600	Juniper Creek near Geneva, Ga.	Lat 32°31'41", long 84°34'14", Talbot-Marion County line, Hydrologic Unit 03130003, at State Highway 41, 1.8 miles south of Geneva.	47.4	1963-81	4-1-81	8.89	1,800
02341723	Pine Knot Creek near Juniper, Ga.	Lat 32°26'14", long 84°39'25", Marion County, Hydrologic Unit 03130003, at State Highway 355, 8 miles south of Juniper.	31.3	1979-81	2-11-81	7.46	(†)

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

b Culvert partially blocked by debris.

c Revised.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Apalachicola River Basin--Continued					
02341900	Ochillee Creek near Cusseta, Ga.	Lat 32°21'53", long 84°49'02, Chattahoochee County, Hydrologic Unit 03130003, at Hourglass Road, 5 miles northwest of Cusseta.	53.3	1979-81	4-1-81	11.88	(†)
02343219	Bluff Springs Branch near Lumpkin, Ga.	Lat 32°01'53", long 84°53'18", Stewart County, Hydrologic Unit 03130003, at culvert on State Highway 27, 5.8 miles southwest of Lumpkin.	2.98	1977-81	2-10-81	2.18	147
02343267	Temple Creek near Blakely, Ga.	Lat 31°26'34", long 84°59'00", Early County, Hydrologic Unit 03130004, at culvert on State Highway 39, 5.2 miles north of Blakely.	2.78	1978-81		(d)	<15
02346193	Scott Creek near Talbotton, Ga.	Lat 32°39'48", long 84°36'06", Talbot County, Hydrologic Unit 03130005, at culvert on county road, 3.7 miles west of Talbotton.	3.36	1969-81	4-1-81	8.07	1,960
02346210	Kimbrough Creek near Talbotton, Ga.	Lat 32°41'19", long 84°30'48", Talbot County, Hydrologic Unit 03130005, at culvert on State Highway 22, 1.8 miles southeast of Talbotton.	6.62	1969-81	4-1-81	6.66	2,000
02346217	Celeoth Creek near Manchester, Ga.	Lat 32°49'20", long 84°36'16", Talbot County, Hydrologic Unit 03130005, at culvert on county road, 2.2 miles south of Manchester.	2.82	1969-81	2-11-81	2.14	266
02348300	Patsiliga Creek near Reynolds, Ga.	Lat 32°34'20, long 84°05'27", Taylor County, Hydrologic Unit 03130005, at State Highway 128, 1 mile north of Reynolds.	139	1963-81	3-3-71 1-14-72 4-7-73 4-5-74 4-2-81	7.94 6.37 7.27 6.93 8.37	c2,100 c648 c1,270 c984 2,800
02348485	Whitewater Creek near Butler, Ga.	Lat 32°30'14", long 84°20'03", Taylor County, Hydrologic Unit 03130005, at State Highway 137, 6.5 miles southwest of Butler.	17.3	1981	4-1-81	8.74	(†)
02349030	Cedar Creek near Rupert, Ga.	Lat 32°23'21", long 84°17'49", Taylor County, Hydrologic Unit 03130005, at U.S. Highway 19, 3 miles south of Rupert.	41.1	1980-81	4-1-81	4.11	(†)
02349330	Buck Creek tributary near Tazewell, Ga.	Lat 32°20'50", long 84°22'26", Schley County, Hydrologic Unit 03130006, at culvert on State Highway 240, 4.3 miles east of Tazewell.	a0.40	1977-81	4-1-81	3.20	56
02349350	Buck Creek near Ellaville, Ga.	Lat 32°18'35", long 84°17'36", Schley County, Hydrologic Unit 03130006, at U.S. Highway 19, 5 miles north of Ellaville.	146	1979-81	2-25-79 4-14-80 4-2-81	7.83 7.59 8.34	1,490 1,300 1,900
02349695	Horsehead Creek near Montezuma, Ga.	Lat 32°21'28", long 83°56'11", Macon County, Hydrologic Unit 03130006, at culvert on State Highway 224, 8.7 miles northeast of Montezuma.	.72	1977-81	4-1-81	3.90	83
02350685	Choctahatchee Creek tributary near Plains, Ga.	Lat 32°02'02", long 84°25'59", Sumter County, Hydrologic Unit 03130007, at culvert on U.S. Highway 280, 2.4 miles west of Plains.	.32	1977-81	8-9-81	2.49	72
02351500	Muckalee Creek near Americus, Ga.	Lat 32°04'59", long 84°15'29", Sumter County, Hydrologic Unit 03130007, at State Highway 30, 1 mile west of Americus.	140	1963-81	2-11-81	9.04	2,950

† Discharge not determined.
a Approximately.
c Revised.
d Peak stage did not reach bottom of gage.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft3/s)
		Apalachicola River Basin--Continued					
02353100	Ichawaynochaway Creek near Dawson, Ga.	Lat 31°46'18", long 84°33'45", Terrell County, Hydrologic Unit 03130009, at State Highway 50, 7 miles west of Dawson.	118	1963-81	2-11-81	8.79	2,120
02354500	Chickasawhatchee Creek at Elmodel, Ga.	Lat 31°21'09", long 84°29'10", Baker County, Hydrologic Unit 03130009, at bridge on State Highway 37 at Elmodel, and 2 miles upstream from mouth.	a320	1940-49‡, 1952-65, 1970-81	2-12-81	8.21	1,830
02356640	Spring Creek at Colquitt, Ga.	Lat 31°10'14", long 84°44'34", Miller County, Hydrologic Unit 03130010, at U.S. Highway 27 at Colquitt.	281	1981	4-6-81	6.18	660
		Mobile River Basin					
02381300	Fir Creek near Ellijay, Ga.	Lat 34°41'06", long 84°37'23", Gilmer County, Hydrologic Unit 03150102, at culvert on State Highway 282, 8 miles west of Ellijay.	1.35	1966-81		(d)	<38
02384500	Conasauga River near Eton, Ga.	Lat 34°49'40", long 84°51'03", Murray-Whitfield County line, Hydrologic Unit 03250101, at State Highway 286, 5 miles west of Eton.	252	1954-58, 1963-81	2-11-81	9.10	3,680
02384600	Mill Creek tributary near Eton, Ga.	Lat 34°49'38", long 84°48'58", Murray County, Hydrologic Unit 03150101, at culvert on State Highway 286, 3 miles west of Eton.	4.28	1965-81	2-11-81	3.84	169
02387300	Dead Mans Branch near Resaca, Ga.	Lat 34°35'44", long 84°52'11", Gordon County, Hydrologic Unit 03150101, at culvert on State Highway 225, 4.2 miles east of Resaca.	.17	1965-81	3-30-81	2.44	36
02388200	Storey Mill Creek (prior to 1974 published as Moss Creek tributary) near Summerville, Ga.	Lat 34°25'39", long 85°16'03", Chattooga County, Hydrologic Unit 03150103, at culvert on county road 6 miles southeast of Summerville.	6.02	1966-81	3-30-81	5.40	508
02395990	Etowah River tributary near Rome, Ga.	Lat 34°16'02", long 85°08'18", Floyd County, Hydrologic Unit 03150104, at culvert on Atteiram Road near Rome.	.37	1979-81	5-31-81	3.96	73
02396515	Silver Creek tributary No. 2 near Rome, Ga.	Lat 34°13'08", long 85°10'27", Floyd County, Hydrologic Unit 03150104, at culvert on U.S. Highways 27 and 411, at junction with Old Lindale Road near Rome.	.54	1979-81	8-30-81	3.87	72
02396550	Silver Creek tributary No. 3 at Rome, Ga.	Lat 34°13'26", long 85°09'14", Floyd County, Hydrologic Unit 03150104, at culvert on U.S. Highway 27, 0.4 mile north of U.S. Highway 411 interchange at Rome.	.26	1979-81	8-30-81	4.55	152
02411735	McClendon Creek tributary near Dallas, Ga.	Lat 33°50'59", long 84°57'20", Paulding County, Hydrologic Unit 03150108, at culvert on State Highway 120, 9.3 miles southwest of Dallas.	.88	1978-81	5-27-81	8.23	860
02411902	Mann Creek tributary near Tallapoosa, Ga.	Lat 33°51'16", long 85°17'28", Haralson County, Hydrologic Unit 03150108, at culvert on State Highway 100, 7 miles north of Tallapoosa.	.12	1978-81	3-30-81	2.00	14

‡ Operated as a continuous-record gaging station.
a Approximately.
d Peak stage did not reach bottom of gage.

Peak discharge at miscellaneous sites

The following table contains peak discharges at sites not included in the continuous gaging or crest-stage partial-record program. These discharges are generally obtained for discontinued gaging stations, discontinued crest-stage partial-record stations, or other miscellaneous sites to give better areal coverage of flood events.

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Dis-charge (ft^3/s)
		Apalachicola River Basin					
02211459	Big Towaliga Creek near Barnesville, Ga.	Lat 33°04'20", long 84°22'04", Lamar County, Hydrologic Unit 03070103, at county road, 2.1 miles northwest of Barnesville.	2.36	1969-74††, 1975-80†, 1981	2-11-81	4.93	m178
02331000	Chattahoochee River near Leaf, Ga.	Lat 34°34'37", long 83°38'09", Habersham County, Hydrologic Unit 03130001, at State Highway 115, 1.5 miles east of Leaf.	150	1940-71†, 1972-81	5-27-81	5.75	m3,130
02349000	Whitewater Creek below Rambulette Creek, near Butler, Ga.	Lat 32°28'02", long 84°15'59", Taylor County, Hydrologic Unit 03130005, at U.S. Highway 19, 6.5 miles south of Butler.	93.4	1952-71†, 1972-77††, 1981	4-1-81	5.14	m846
		Mobile River Basin					
02379500	Cartecay River near Ellijay, Ga.	Lat 34°40'53", long 84°27'20", Gilmer County, Hydrologic Unit 03150102, on right bank adjacent to State Highway 52, 2 miles southeast of Ellijay.	134	1938-77†, 1979-81	2-10-81	4.32	m1,860

† Operated as a continuous-record gaging station.
†† Operated as a crest-stage partial-record station.
m Annual maximum.

A series of base-flow discharge measurements was made on selected streams in the Dougherty Plain area, southwest Georgia, and are listed below. The measurements were made as part of a cooperative investigation of the U.S. Geological Survey with the Georgia Geologic Survey to define the water resources of the Dougherty Plain. This data, along with other data collected by the U.S. Geological Survey will be used to evaluate the effects of large irrigation withdrawals of ground water and high evaporation-transpiration losses upon the base flow yields of streams and to provide a method of validating the accuracy of water budgets determined from digital modeling of the Dougherty Plain area, southwest Georgia. The column headed "Period of record" shows the water years in which base-flow measurements were made at the same site.

Base-flow discharge measurements made in the Dougherty Plain area

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Apalachicola River Basin				
02349800	Flint River near Methvine, Ga.	Lat 32°07'28", long 84°00'43", Sumter-Crisp County line, Hydrologic Unit 03130006, at boat landing 4 miles east of Warwick.	a3,200	1979-81	1-5-81	1,600
02349910	Turkey Creek near Drayton, Ga.	Lat 32°06'13", long 83°56'23", Dooly County, Hydrologic Unit 03130006, at county road 2 miles northeast of Drayton.	76.0	1980-81	1-5-81	21
02349980	Pennahatchee Creek near Drayton, Ga.	Lat 32°05'43", long 83°55'04", Dooly County, Hydrologic Unit 03130006, at county road 3 miles east of Drayton.	102	1980-81	1-5-81	5.2
02350220	Gum Creek at Coney, Ga.	Lat 31°57'40", long 83°53'05", Crisp County, Hydrologic Unit 03130006, at U.S. Highway 280 at Coney.	73.0	1974, 1980-81	1-5-81	9.2
02350360	Swift Creek near Warwick, Ga.	Lat 31°50'20", long 83°51'18", Worth-Crisp County line, Hydrologic Unit 03130006, at county road 4 miles east of Warwick.	40.0	1980-81	1-5-81	11
02350405	Flint River near Warwick, Ga.	Lat 31°50'56", long 83°56'50", Worth-Lee County line, Hydrologic Unit 03130006, just below Crisp County Dam, 2 miles west of Warwick.	3,710	1981	7-30-81	754
02350509	Jones Creek near Oakfield, Ga.	Lat 31°45'33", long 83°58'42", Worth County, Hydrologic Unit 03130006, at State Highway 257, 1.5 miles south of Oakfield.	50.5	1980-81	1-5-81 7-30-81	4.4 2.1
02350512	Flint River below Oakfield, Ga.	Lat 31°43'30", long 84°01'07", Worth-Lee County line, Hydrologic Unit 03130006, at State Highway 32, 5 miles south of Oakfield.	a3,930	1981	7-30-81	764
02350524	Abrams Creek near Oakfield, Ga.	Lat 31°43'07", long 83°59'19", Worth County, Hydrologic Unit 03130006, at State Highway 257, 4 miles south of Oakfield.	80.2	1980-81	1-5-81 7-30-81	11 14
02350543	Piney Woods Creek above Albany, Ga.	Lat 31°36'08", long 84°02'58", Dougherty County, Hydrologic Unit 03130006, at State Highway 257, 2 miles northeast of city limits of Albany.	60.4	1955, 1980-81	1-6-81	0
02350860	Kinchafoonee Creek near Smithville, Ga.	Lat 31°52'06", long 84°18'18", Lee-Terrell County line, Hydrologic Unit, 03130007, at State Highway 118, 4 miles west of Smithville.	485	1954, 1980-81	1-6-81	210
02351000	Kinchafoonee Creek near Leesburg, Ga.	Lat 31°43'10", long 84°11'08", Lee County, Hydrologic Unit 03130007, at State Highway 32, 1 miles west of Leesburg.	586	1953-54, 1980-81	1-6-81 7-30-81	230 83
02351700	Muckalee Creek near Smithville, Ga.	Lat 31°53'43", long 84°11'51", Lee County, Hydrologic Unit 03130007, at State Highway 118, 3 miles east of Smithville.	265	1951, 1953-54, 1959-61, 1964-68, 1980-81	1-5-81	163
02351780	Muckaloochee Creek near Americus, Ga.	Lat 31°58'37", long 84°18'12", Sumter County, Hydrologic Unit 03130007, at State Highway 49, 9 miles southwest of Americus.	27.1	1980-81	1-6-81	17

a Approximately.

Base-flow discharge measurements made in the Dougherty Plain area--Continued

Station No.	Station name	Location	Drainage area (mi2)	Period of record	Measurements	
					Date	Discharge (ft3/s)
		Apalachicola River Basin--Continued				
02351800	Muckaloochee Creek at Smithville, Ga.	Lat 31°54'24", long 84°14'42", Lee County, Hydrologic Unit 03130007, at State Highway 118 at Smithville.	a47	1951, 1954, 1959, 1961, 1964-68, 1973, 1980-81	1-5-81	30
02351920	Muckalee Creek below Leesburg, Ga.	Lat 31°40'14", long 84°06'07", Lee County, Hydrologic Unit 03130007, at head of Lake Worth, 6 miles southeast of Leesburg.	416	1980-81	1-6-81	222
02352760	Dry Creek near Putney, Ga.	Lat 31°27'04", long 84°08'07", Dougherty County, Hydrologic Unit 03130008, at State Highway 3, 1.5 miles south of Putney.	68.1	1955, 1980-81	1-6-81	0
02352920	Raccoon Creek near Baconton, Ga.	Lat 31°21'48", long 84°10'04", Mitchell County, Hydrologic Unit 03130008, at State Highway 3, 1 mile south of Baconton.	92.9	1955, 1969, 1980-81	1-6-81	0
02352980	Cooleewahee Creek at Newton, Ga.	Lat 31°19'48", long 84°19'50", Baker County, Hydrologic Unit 03130008, at State Highway 91 at Newton.	151	1955, 1969, 1980-81	1-6-81	1.8
02353100	Ichawaynochaway Creek near Dawson, Ga.	Lat 31°46'18", long 84°29'10", Terrell County, Hydrologic Unit 03130009, at State Highway 50, 7 miles west of Dawson.	118	1951, 1954, 1969, 1980-81	1-5-81	66
02353265	Ichawaynochaway Creek near Morgan, Ga.	Lat 31°31'37", long 84°34'58", Calhoun County, Hydrologic Unit 03130009, at State Highway 37, 1 mile east of Morgan.	301	1980-81	1-5-81	158
02353460	Ichawaynochaway Creek near Leary, Ga.	Lat 31°28'09", long 84°34'15", Calhoun County, Hydrologic Unit 03130009, at State Highway 62, 3 miles west of Leary.	570	1954-55, 1980-81	1-6-81	280
02354350	Chickasawhatchee Creek near Albany, Ga.	Lat 31°35'37", long 84°27'12", Dougherty-Calhoun County line, Hydrologic Unit 03130009, at State Highway 234, 11 miles west of city limits of Albany.	118	1980-81	1-19-81	28
02354410	Chickasawhatchee Creek near Leary, Ga.	Lat 31°30'13", long 84°25'50", Calhoun-Dougherty County line, Hydrologic Unit 03130009, at State Highway 62, 5 miles east of Leary.	157	1955, 1980-81	1-7-81	37
02354440	Kiokee Creek near Pretoria, Ga.	Lat 31°30'13", long 84°22'01", Dougherty County, Hydrologic Unit 03130009, at State Highway 62, 3 miles west of Pretoria.	67.0	1955, 1969, 1980-81	1-7-81 1-19-81	0 0
02354500	Chickasawhatchee at Elmodel, Ga.	Lat 31°21'09", long 84°29'10", Baker County, Hydrologic Unit 03130009, at State Highway 37 at Elmodel.	a320	1940-49, 1955, 1959-60, 1962, 1964-68, 1973-74, 1980-81	1-6-81	38
02355000	Ichawaynochaway Creek near Newton, Ga.	Lat 31°16'20", long 84°29'19", Baker County, Hydrologic Unit 03130009, at State Highway 200, 9 miles west of Newton.	1,020	1952, 1959, 1961-62, 1964-68, 1973-74, 1980-81	1-6-81	374
02355350	Ichawaynochaway Creek below Newton, Ga.	Lat 31°12'48", long 84°28'24", Baker County, Hydrologic Unit 03130009, at State Highway 91, 11 miles south of Newton.	1,040	1955, 1980-81	1-5-81 7-31-81	380 144

a Approximately.

Base-flow discharge measurements made in the Dougherty Plain area--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Measurements	
					Date	Discharge (ft^3/s)
		Apalachicola River Basin--Continued				
02355600	Big Cypress Creek near Newton, Ga.	Lat 31°12'14", long 84°29'53", Baker County, Hydrologic Unit 03130009, at State Highway 91, 11 miles southwest of Newton.	--	1980-81	1-5-81	0
02355660	Flint River near Camilla, Ga.	Lat 31°09'08", long 84°28'57", Mitchell-Baker County line, Hydrologic Unit 03130008, at Riverview Plantation, 16 miles southwest of Camilla.	a7,010	1981	7-31-81	1,670
02355700	Flint River above Bainbridge, Ga.	Lat 30°57'15", long 84°33'47", Decatur County, Hydrologic Unit 03130008, at boat landing, 5 miles north of Bainbridge.	a7,240	1981	7-31-81	1,720
02355785	Big Slough near Camilla, Ga.	Lat 31°13'06", long 84°15'08", Mitchell County, Hydrologic Unit 03130008, at State Highway 97, 2 miles west of Camilla.	105	1980-81	1-5-81	4.6
02355830	Big Slough below Camilla, Ga.	Lat 31°09'02", long 84°17'19", Mitchell County, Hydrologic Unit 03130008, at State Highway 65, 7 miles southwest of Camilla.	157	1980-81	1-5-81	.28
02355880	Big Slough near Pelham, Ga.	Lat 31°05'24", long 84°19'02", Mitchell County, Hydrologic Unit 03130008, at county road, 10 miles west of Pelham.	214	1980-81	1-5-81	0
02355950	Big Slough near Bainbridge, Ga.	Lat 30°56'05", long 84°31'23", Decatur County, Hydrologic Unit 03130008, at State Highway 97, 2 miles northeast of Bainbridge.	315	1952, 1980-81	1-5-81	0
02356100	Spring Creek near Arlington, Ga.	Lat 31°24'47", long 84°46'33", Early County, Hydrologic Unit 03130010, at State Highway 62, 3.5 miles southwest of Arlington.	a49	1951-52, 1954-55, 1959, 1961-62, 1964-68, 1973-74, 1980-81	1-6-81	2.4
02356220	Spring Creek at Damascus, Ga.	Lat 31°18'20", long 84°44'59", Early County, Hydrologic Unit 03130010, at State Highway 200, 1 mile west of Damascus.	99.8	1980-81	1-5-81	5.0
02356290	Dry Creek near Blakely, Ga.	Lat 31°22'22", long 84°52'59", Early County, Hydrologic Unit 03130010, at State Highway 200, 2 miles east of Blakely.	45.5	1980-81	1-5-81	8.8
02356460	Dry Creek near Hentown, Ga.	Lat 31°17'08", long 84°49'08", Early County, Hydrologic Unit 03130010, at county road, 1 mile east of Hentown.	101	1981	1-5-81	12
02356600	Long Branch near Colquitt, Ga.	Lat 31°12'49", long 84°43'54", Miller County, Hydrologic Unit 03130010, at State Highway 45, 2 miles north of Colquitt.	--	1980-81	1-5-81	0
02356640	Spring Creek at Colquitt, Ga.	Lat 31°10'14", long 84°44'34", Miller County, Hydrologic Unit 03130010, at U.S. Highway 27 at Colquitt.	281	1952, 1954-55, 1980-81	1-5-81	37
02356860	Big Drain Creek near Boykin, Ga.	Lat 31°05'24", long 84°42'20", Miller County, Hydrologic Unit 03130010, at State Highway 310, 1 mile southwest of Boykin.	—	1980-81	1-6-81	0
02356970	Aycocks Creek below Colquitt, Ga.	Lat 31°06'19", long 84°46'46", Miller County, Hydrologic Unit 03130010, at State Highway 45, 4 miles southwest of Colquitt.	—	1980-81	1-6-81	0

a Approximately.

Base-flow discharge measurements made in the Dougherty Plain area--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Measurements	
					Date	Discharge (ft³/s)
		Apalachicola River Basin--Continued				
02357025	Dry Creek near Iron City, Ga.	Lat 31°02'58", long 84°47'40", Seminole County, Hydrologic Unit 03130010, at State Highway 45, 2 miles north of Iron City.	—	1980-81	1-6-81	0
02357050	Spring Creek at Brinson, Ga.	Lat 30°58'30", long 84°44'46", Decatur County, Hydrologic Unit 03130010, at U.S. Highway 84 at Brinson.	560	1980-81	1-6-81	83
02357310	Fishpond Drain near Donaldsonville, Ga.	Lat 30°58'44", long 84°52'17", Seminole County, Hydrologic Unit 03130010, at State Highway 285, 3 miles south of Donaldsonville.	—	1980-81	1-6-81	0

CHARLTON COUNTY

304943082213701 Local number, 27E1.
LOCATION.--Lat 30°49'43", long 82°21'37", Hydrologic Unit 03110201, end of Georgia Highway 177 east of Stephen C. Foster State Park.
Owner: U. S. Geological Survey, Test well OK 8.
AQUIFER.--Principal artesian aquifer.
WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in. (10.1 cm), depth 647 ft (197.2 m), cased to 465 ft (141.7 m), open hole.
DATUM.--Altitude of land-surface is 116 ft (35.3 m) National Geodetic Vertical Datum of 1929.
Measuring point: Floor of recorder shelter, 4.2 ft (1.28 m) above land-surface datum.
REMARKS.--Well pumped Aug. 1, 1978, sounded to obstruction at 484 ft (147.5 m). Well open below obstruction. Water levels for period of missing recorder record, Aug. 17 to Sept. 17 were estimated.
PERIOD OF RECORD.--May 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 58.65 ft (17.877 m) below land-surface datum, June 27, 1966; lowest, 71.17 ft (21.693 m) below land surface datum, July 27, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68.00	68.47	68.57	68.43	68.62	68.08	67.77	67.87	69.50	70.60	71.16	70.79
2	68.05	68.50	68.53	68.50	68.53	67.97	67.77	67.97	69.57	70.71	71.13	70.78
3	68.10	68.52	68.57	68.50	68.25	68.02	67.80	68.10	69.63	70.76	71.10	70.78
4	68.13	68.38	68.60	68.47	68.80	67.95	67.82	68.17	69.67	70.79	71.10	70.78
5	68.20	68.35	68.60	68.60	68.78	67.73	67.77	68.15	69.67	70.77	71.10	70.78
6	68.30	68.40	68.60	68.53	68.73	67.82	67.78	68.12	69.67	70.80	71.10	70.78
7	68.28	68.40	68.63	68.30	68.58	67.93	67.85	68.10	69.70	70.85	71.00	70.76
8	68.22	68.37	68.57	68.35	68.47	68.00	67.87	68.23	69.73	70.87	70.92	70.70
9	68.22	68.40	68.50	68.40	68.57	68.10	67.83	68.33	69.73	70.87	70.97	70.66
10	68.24	68.39	68.43	68.45	68.60	68.08	67.83	68.35	69.83	70.86	71.05	70.66
11	68.22	68.45	68.52	68.50	68.64	68.01	67.80	68.35	69.90	70.86	71.06	70.69
12	68.27	68.50	68.57	68.52	68.86	67.96	67.75	68.45	69.97	70.87	70.98	70.72
13	68.35	68.54	68.55	68.50	68.94	67.86	67.75	68.53	70.05	70.87	70.99	70.70
14	68.40	68.50	68.54	68.44	68.90	67.79	67.80	68.50	70.07	70.86	70.99	70.67
15	68.43	68.40	68.47	68.37	68.82	67.80	67.87	68.50	70.05	70.87	70.94	70.65
16	68.45	68.40	68.33	68.43	68.72	67.61	67.95	68.60	70.05	70.90	70.88	70.65
17	68.43	68.37	68.40	68.57	68.62	67.70	67.87	68.70	70.05	70.93	70.86	70.65
18	68.39	68.43	68.57	68.59	68.66	67.47	67.80	68.73	70.07	71.00	70.87	70.65
19	68.35	68.57	68.60	68.47	68.48	67.43	67.73	68.75	70.15	71.03	70.87	70.69
20	68.37	68.60	68.70	68.39	68.28	67.60	67.63	68.73	70.17	71.03	70.88	70.66
21	68.45	68.65	68.77	68.40	68.26	67.67	67.73	68.83	70.23	70.97	70.92	70.62
22	68.50	68.67	68.75	68.49	68.23	67.60	67.80	68.97	70.25	70.96	70.96	70.60
23	68.48	68.60	68.65	68.46	68.21	67.60	67.73	69.05	70.26	71.03	70.96	70.59
24	68.45	68.47	68.55	68.40	68.21	67.70	67.65	69.07	70.35	71.09	70.95	70.66
25	68.37	68.47	68.57	68.43	68.27	67.77	67.73	69.13	70.43	71.13	70.93	70.72
26	68.52	68.50	68.65	68.46	68.27	67.85	67.85	69.15	70.40	71.16	70.92	70.68
27	68.52	68.40	68.57	68.43	68.25	67.89	67.92	69.13	70.47	71.17	70.91	70.66
28	68.45	68.43	68.47	68.48	68.20	67.90	67.93	69.15	70.53	71.15	70.92	70.62
29	68.45	68.50	68.40	68.56	---	67.87	67.90	69.25	70.65	71.13	70.91	70.62
30	68.45	68.60	68.37	68.61	---	67.77	67.87	69.35	70.63	71.10	70.86	70.66
31	68.46	---	68.42	68.70	---	67.75	---	69.40	---	71.14	70.82	---
MEAN	68.34	68.47	68.55	68.48	68.53	67.82	67.81	68.64	70.05	70.94	70.97	70.69

WTR YR 1981 MEAN 69.11 HIGH 67.43 LOW 71.17

CHATHAM COUNTY

315950081161201 Local number, 35P94.

LOCATION.—Lat 31°59'50", long 81°16'12", Hydrologic Unit 03060204, Barbour Lathrop Plant Introduction Station, 10 miles (16.1 km) south of Savannah, north of the intersection of U.S. Highway 17 and Argyle Rd.
Owner: U.S. Department of Agriculture.
AQUIFER.—Sands of Holocene and Pleistocene ages.
WELL CHARACTERISTICS.—Bored observation well, diameter 30 in. (76.2 cm), depth 15 ft (4.6 m), cased to 15 ft (4.6 m), open end.
DATUM.—Altitude of land-surface is 18.67 ft (5.691 m) National Geodetic Vertical Datum of 1929.
Measuring point: Iron bracket on recorder shelter, 3.3 ft (1.01 m) above land-surface datum.
REMARKS.—Responds quickly to precipitation.
PERIOD OF RECORD.—August 1942 to current year.
EXTREMES FOR PERIOD OF RECORD.—Highest water level, 0.05 ft (0.015 m) below land-surface datum, Sept. 26, 1953; lowest, 12.28 ft (3.743 m) below land-surface datum, November 30, 1972.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.43	10.93	11.10	11.19	11.12	9.71	8.45	9.04	9.75	10.67	8.30	4.56
2	10.43	10.93	11.10	11.18	11.11	9.71	8.18	9.12	9.80	10.70	6.30	4.68
3	10.44	10.94	11.11	11.17	11.11	9.75	7.84	9.18	9.83	10.71	5.50	4.82
4	10.45	10.94	11.11	11.16	11.10	9.72	7.62	9.22	9.86	10.74	5.46	4.95
5	10.47	10.95	11.11	11.16	11.09	9.68	7.50	9.26	9.90	10.76	5.53	5.06
6	10.50	10.95	11.12	11.15	11.08	9.69	7.53	9.30	9.92	10.78	5.71	5.15
7	10.52	10.96	11.12	11.14	11.06	9.67	7.57	9.15	9.95	10.80	5.90	5.22
8	10.53	10.97	11.12	11.13	11.04	9.66	7.59	8.97	10.00	10.82	6.12	5.23
9	10.55	10.98	11.13	11.13	11.04	9.64	7.62	8.88	10.03	10.84	6.34	5.35
10	10.56	10.99	11.13	11.12	11.03	9.61	7.70	8.86	10.07	10.87	6.49	5.46
11	10.58	11.00	11.14	11.11	10.96	9.60	7.77	8.88	10.12	10.89	6.60	5.56
12	10.60	11.01	11.14	11.10	10.79	9.60	7.82	8.96	10.12	10.92	6.32	5.67
13	10.62	11.02	11.15	11.09	10.65	9.58	7.88	9.02	10.15	10.94	5.43	5.78
14	10.64	11.03	11.16	11.09	10.52	9.60	8.04	9.03	10.17	10.97	4.84	5.89
15	10.66	11.05	11.16	11.08	10.41	9.60	8.16	9.08	10.20	10.99	4.78	6.01
16	10.68	11.06	11.16	11.07	10.32	9.60	8.25	9.17	10.23	11.02	4.92	6.10
17	10.70	11.07	11.17	11.07	10.24	9.63	8.25	9.23	10.26	11.04	5.10	6.06
18	10.72	11.08	11.18	11.08	10.14	9.59	8.29	9.26	10.30	10.92	5.27	6.03
19	10.74	11.09	11.18	11.08	10.07	9.55	8.33	9.28	10.33	10.80	4.78	6.10
20	10.75	11.10	11.19	11.08	10.00	9.53	8.40	9.33	10.36	10.78	4.08	6.18
21	10.77	11.11	11.19	11.08	9.93	9.50	8.51	9.38	10.39	10.79	3.92	6.28
22	10.79	11.12	11.20	11.09	9.87	9.37	8.61	9.41	10.42	10.82	3.90	6.40
23	10.81	11.13	11.21	11.09	9.82	9.18	8.59	9.43	10.45	10.85	3.98	6.52
24	10.82	11.14	11.22	11.09	9.79	9.01	8.61	9.46	10.50	10.90	4.08	6.67
25	10.83	11.14	11.22	11.10	9.76	8.86	8.73	9.50	10.53	10.93	4.21	6.78
26	10.84	11.14	11.23	11.10	9.75	8.74	8.84	9.52	10.56	10.97	4.35	6.87
27	10.86	11.14	11.23	11.11	9.75	8.66	8.90	9.53	10.59	11.00	4.40	6.97
28	10.88	11.12	11.24	11.11	9.73	8.65	8.93	9.55	10.61	11.01	4.54	7.10
29	10.90	11.11	11.23	11.11	---	8.60	8.96	9.61	10.63	11.03	4.44	7.22
30	10.91	11.10	---	11.12	---	8.54	8.99	9.66	10.65	10.88	4.30	7.35
31	10.92	---	---	11.13	---	8.57	---	9.71	---	10.14	4.44	---
MEAN	10.67	11.04	11.16	11.11	10.47	9.37	8.22	9.26	10.22	10.85	5.17	5.93

WTR YR 1981 MEAN 9.45 HIGH 3.90 LOW 11.24

CHATHAM COUNTY

320021081124801 Local number, 36Q20.

LOCATION.--Lat 32°00'21", long 81°12'48", Hydrologic Unit 03060204, 2.7 mi (4.3 km) south of intersection of U.S. Highway 17 with Dean Forest Road.
Owner: H. J. Morrison.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 3 in. (7.6 cm), depth 365 ft (111.2 m), cased to 330 ft (100.6 m), open hole.

DATUM.--Altitude of land-surface is 13 ft (4.0 m) National Geodetic Vertical Datum of 1929.
Measuring point: Floor of recorder shelter, 3.88 ft (1.183 m) above land-surface datum.

REMARKS.--None.

PERIOD OF RECORD.--March 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.66 ft (5.383 m) below land-surface datum, June 28, 1958; lowest, 49.15 ft (14.981 m) below land-surface datum, September 6, 7, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48.70	47.90	47.05	45.50	45.20	44.25	43.65	44.70	46.10	48.20	48.88	48.35
2	48.70	47.90	46.95	45.62	45.00	44.20	43.60	44.90	46.20	48.15	48.80	48.35
3	48.70	47.90	47.05	45.55	45.25	44.25	43.50	45.15	46.20	48.05	48.75	48.38
4	48.70	47.75	47.08	45.55	45.20	44.10	43.43	45.20	46.25	48.00	48.80	48.40
5	48.75	47.68	46.98	45.55	45.26	43.85	43.40	45.20	46.30	47.95	48.80	48.40
6	48.80	47.70	46.95	45.50	45.05	44.00	43.43	45.25	46.45	47.95	48.85	48.40
7	48.70	47.70	46.90	45.25	44.85	44.05	43.45	45.20	46.45	47.85	48.80	48.35
8	48.60	47.60	46.82	45.30	44.60	44.12	43.40	45.15	46.60	47.70	48.73	48.15
9	48.60	47.58	46.70	45.25	44.90	44.18	43.40	45.15	46.65	47.60	48.80	48.10
10	48.60	47.58	46.60	45.30	44.70	44.10	43.42	45.15	46.70	47.70	48.90	48.10
11	48.55	47.58	46.63	45.30	44.75	44.05	43.48	45.10	46.85	47.65	48.85	48.15
12	48.65	47.60	46.65	45.35	45.10	44.05	43.48	45.20	47.10	47.65	48.80	48.00
13	48.75	47.63	46.60	45.45	45.05	43.90	43.62	45.25	47.30	47.65	48.75	47.95
14	48.75	47.53	46.60	45.30	44.95	43.90	43.72	45.20	47.35	47.85	48.70	47.90
15	48.72	47.40	46.45	45.35	44.90	43.90	43.85	45.25	47.30	48.05	48.60	47.85
16	48.70	47.45	46.35	45.45	44.80	43.72	43.90	45.45	47.40	48.30	48.60	47.85
17	48.60	47.32	46.35	45.60	44.72	43.80	43.90	45.60	47.60	48.45	48.60	47.80
18	48.55	47.32	46.55	45.60	44.65	43.58	43.90	45.60	47.75	48.55	48.55	47.80
19	48.50	47.48	46.55	45.50	44.45	43.53	43.93	45.55	47.85	48.55	48.50	47.80
20	48.55	47.45	46.58	45.35	44.30	43.70	43.95	45.60	47.95	48.50	48.55	47.78
21	48.55	47.35	46.62	45.30	44.30	43.75	44.05	45.70	48.15	48.55	48.50	47.75
22	48.55	47.40	46.62	45.35	44.35	43.65	44.03	45.70	48.25	48.55	48.50	47.73
23	48.45	47.32	46.45	45.25	44.30	43.60	43.90	45.75	48.25	48.68	48.50	47.80
24	48.35	47.10	46.35	45.20	44.32	43.80	43.80	45.83	48.35	48.75	48.45	47.88
25	48.15	47.15	46.45	45.25	44.40	43.68	43.95	46.00	48.45	48.90	48.40	47.85
26	48.35	47.15	46.40	45.15	44.38	43.93	44.13	46.05	48.50	48.95	48.40	47.85
27	48.25	46.90	46.15	45.05	44.43	43.90	44.23	46.00	48.50	49.00	48.42	47.85
28	48.10	46.95	45.80	45.15	44.37	43.95	44.30	45.95	48.55	48.95	48.40	47.85
29	48.08	47.02	45.65	45.28	---	43.85	44.40	46.00	48.45	48.95	48.35	47.85
30	48.00	47.10	45.52	45.30	---	43.70	44.55	46.05	48.35	48.88	48.30	47.95
31	47.95	---	45.50	45.35	---	43.75	---	46.05	---	48.95	48.35	---
MEAN	48.51	47.45	46.51	45.36	44.73	43.90	43.79	45.48	47.41	48.31	48.62	48.01

WTR YR 1981 MEAN 46.52 HIGH 43.40 LOW 49.00

CHATHAM COUNTY

320122080510202 Local number, 39Q3.

LOCATION.—Lat 32°01'22", long 80°51'02", Hydrologic Unit 03060204, Tybee Island near Fort Screven.
Owner: U.S. Geological Survey, test well 7.

AQUIFER.—Principal artesian aquifer.

WELL CHARACTERISTICS.—Drilled observation well, diameter 10 in. (25.4 cm), depth 600 ft (182.9 m), cased to 129 ft (39.3 m), open hole.

DATUM.—Altitude of land-surface is 7.0 ft (2.13 m) National Geodetic Vertical Datum of 1929.
Measuring point: Top of 10 in. (25.4 cm) casing, 2.0 ft (0.61 m) above land-surface datum.

REMARKS.—Borehole geophysical survey conducted January 24, 1962.

PERIOD OF RECORD.—May 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level, 17.8 ft (5.425 m) below land-surface datum, April 11, 1963; lowest, 29.65 ft (9.038 m) below land-surface datum, July 27, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.50	28.15	27.80	27.25	26.35	24.45	26.35	26.75	27.75	28.50	28.85	28.00
2	28.55	28.20	27.65	27.35	26.70	26.00	26.25	26.90	27.80	28.25	29.00	27.85
3	28.70	28.00	27.80	27.35	27.10	26.05	26.15	27.10	27.95	28.50	28.80	27.95
4	28.75	27.95	27.65	27.35	27.00	25.85	26.12	26.70	28.00	28.50	29.00	27.85
5	28.70	28.05	27.55	27.05	26.80	25.75	26.20	27.00	28.15	28.75	29.10	27.80
6	28.65	28.00	27.60	27.00	26.60	25.90	25.85	26.65	28.15	28.65	29.10	27.90
7	28.50	28.05	27.65	27.10	26.40	25.80	26.10	26.40	28.10	28.75	28.95	27.90
8	28.50	28.15	27.60	27.20	26.40	26.05	26.20	26.35	27.80	28.60	28.95	27.80
9	28.50	28.15	27.55	27.05	26.50	26.05	26.15	26.50	27.95	28.60	28.90	27.70
10	28.75	28.25	27.60	27.25	26.25	26.10	26.15	26.90	28.20	28.75	28.85	27.60
11	28.88	28.00	27.45	27.25	26.75	25.15	26.35	26.90	28.45	28.95	28.75	27.75
12	28.90	27.80	27.50	27.35	26.90	26.05	26.35	27.30	28.20	29.00	28.80	27.80
13	28.60	27.80	27.60	27.35	26.45	26.00	26.40	27.30	28.30	28.95	28.70	28.00
14	28.55	27.78	27.45	27.55	26.30	26.10	26.15	27.00	28.40	29.10	28.60	27.90
15	28.50	27.65	27.20	27.55	26.20	26.05	26.20	27.15	28.30	28.90	28.60	28.15
16	28.45	27.55	27.30	27.45	26.20	26.10	26.25	27.50	28.20	28.80	28.65	28.10
17	28.50	27.45	27.25	27.60	26.35	26.15	26.50	27.70	28.30	29.00	28.70	28.10
18	28.65	27.90	27.35	27.60	26.35	26.05	26.95	27.45	28.50	28.80	28.25	27.85
19	28.65	27.90	27.45	27.35	26.15	25.90	26.60	27.60	28.50	29.10	28.30	27.70
20	28.55	27.65	27.40	27.05	26.00	26.00	26.30	27.35	28.45	29.25	28.55	27.70
21	28.40	27.65	27.00	27.30	26.10	26.10	25.95	27.15	28.55	29.20	28.05	27.75
22	28.40	27.75	27.10	27.25	25.90	25.90	26.30	27.30	28.50	29.15	28.05	27.80
23	28.20	27.60	27.15	27.25	25.95	25.90	26.35	27.80	28.55	29.15	28.25	27.85
24	27.95	27.55	27.25	27.70	26.15	26.00	26.60	27.75	28.60	29.05	28.30	27.90
25	28.35	27.70	27.65	26.75	26.05	26.20	26.70	27.70	28.60	29.50	28.20	27.90
26	28.60	27.35	27.10	26.70	26.10	26.30	26.65	27.60	28.90	29.60	28.00	27.90
27	28.50	27.20	26.95	26.60	25.35	26.30	26.80	27.35	28.50	29.65	28.00	27.90
28	28.30	27.65	26.90	26.65	25.40	26.35	26.90	27.65	28.55	29.60	28.10	28.10
29	28.40	28.00	27.00	26.80	---	26.25	26.85	27.65	28.65	29.35	28.05	28.05
30	28.15	27.95	26.90	26.80	---	26.25	26.75	27.90	28.60	28.95	28.00	27.95
31	28.05	---	26.85	26.50	---	26.40	---	27.90	---	28.80	28.00	---
MEAN	28.50	27.83	27.36	27.17	26.31	25.98	26.38	27.23	28.32	28.96	28.53	27.88

WTR YR 1981 MEAN 27.55 HIGH 24.45 LOW 29.65

CHATHAM COUNTY

320202080541201 Local number, 38Q2.

LOCATION.--Lat 32°02'02", long 80°54'12", Hydrologic Unit 03060204, Cockspur Island, near pilot house.
Owner: U.S. Department of the Interior, National Park Service.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in. (20.3 cm), depth 348 ft (106.1 m), cased to 110 ft (33.5 m), open hole.

DATUM.--Altitude of land-surface is 8.0 ft (2.44 m) National Geodetic Vertical Datum of 1929.
Measuring point: Floor of recorder shelter, 3.62 ft (1.103 m) above land-surface datum.

REMARKS.--Borehole geophysical survey conducted June 16, 1961.

PERIOD OF RECORD.--February 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.0 ft (4.88 m) below land-surface datum, March 5, 1956; lowest, 35.60 ft (10.851 m) below land-surface datum, September 2-6, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34.85	34.20	33.70	32.90	32.10	31.55	31.80	32.40	33.30	34.20	34.70	33.80
2	34.85	34.25	33.60	32.95	32.20	31.45	31.75	32.25	33.40	34.10	34.65	33.80
3	34.90	34.15	33.70	32.95	32.60	31.50	31.70	32.40	33.45	34.20	34.70	33.80
4	34.90	34.10	33.60	32.85	32.55	31.55	31.55	32.50	33.60	34.20	34.80	33.75
5	34.90	34.10	33.50	32.75	32.40	31.30	31.50	32.40	33.60	34.40	34.90	33.70
6	34.90	34.10	33.55	32.70	32.40	31.45	31.70	32.40	33.70	34.40	34.90	33.70
7	34.75	34.10	33.50	32.55	32.10	31.40	31.70	32.40	33.75	34.50	34.75	33.65
8	34.65	34.20	33.45	32.50	32.00	31.55	31.70	32.40	33.70	34.40	34.60	33.60
9	34.70	34.15	33.40	32.45	32.20	31.60	31.70	32.50	33.75	34.40	34.70	33.60
10	34.75	34.20	33.30	32.50	32.00	31.60	31.70	32.65	33.88	34.40	34.70	33.50
11	34.70	34.00	33.30	32.50	32.20	31.55	31.75	32.70	33.90	34.50	34.60	33.60
12	34.80	33.90	33.28	32.55	32.50	31.60	31.80	33.00	33.80	34.60	34.50	33.55
13	34.75	33.90	33.30	32.60	32.25	31.55	31.90	33.00	33.85	34.50	34.50	33.60
14	34.75	33.85	33.25	32.60	32.05	31.65	31.80	32.80	33.90	34.60	34.40	33.55
15	34.75	33.75	33.05	32.60	31.90	31.60	31.85	32.85	33.85	34.50	34.25	33.65
16	34.70	33.65	33.10	32.60	31.85	31.75	31.95	33.00	33.70	34.50	34.30	33.70
17	34.65	33.50	33.05	32.70	31.95	31.70	32.05	33.22	33.80	34.60	34.30	33.70
18	34.65	33.85	33.15	32.70	31.90	31.55	32.10	33.20	34.00	34.80	34.10	33.55
19	34.70	33.85	33.20	32.45	31.80	31.40	32.05	33.30	34.00	34.80	34.20	33.55
20	34.65	33.70	33.15	32.30	31.70	31.55	32.20	33.30	34.15	34.90	34.40	33.50
21	34.60	33.50	32.85	32.40	31.60	31.60	31.75	33.15	34.30	34.90	34.00	33.60
22	34.55	33.70	32.95	32.50	31.60	31.50	31.90	33.20	34.30	35.00	34.00	33.60
23	34.35	33.60	32.90	32.50	31.55	31.50	32.00	33.30	34.35	34.95	34.10	33.60
24	34.10	33.60	33.00	32.40	31.65	31.60	32.00	33.35	34.40	34.90	34.00	33.65
25	34.25	33.70	33.25	32.35	31.70	31.60	32.15	33.30	34.50	35.00	34.05	33.65
26	34.60	33.50	33.00	32.40	31.75	31.70	32.20	33.30	34.55	35.00	33.90	33.60
27	34.55	33.30	32.80	32.35	31.55	31.75	32.30	33.30	34.30	35.10	33.80	33.60
28	34.40	33.60	32.60	32.30	31.60	31.80	32.50	33.40	34.30	35.00	33.90	33.65
29	34.45	33.90	32.70	32.50	---	31.75	32.50	33.30	34.25	35.00	33.80	33.70
30	34.30	33.85	32.65	32.40	---	31.65	32.40	33.30	34.20	34.80	33.70	33.75
31	34.20	---	32.60	32.30	---	31.80	---	33.20	---	34.70	33.75	---
MEAN	34.63	33.86	33.18	32.55	31.99	31.58	31.93	32.93	33.95	34.64	34.32	33.64

WTR YR 1981 MEAN 33.28 HIGH 31.30 LOW 35.10

CHATHAM COUNTY

320530081085001 Local number, 36Q8.

LOCATION.—Lat 32°05'30", long 81°08'50", Hydrologic Unit 03060204, 0.19 mi (0.3 km) southeast of intersection of Alfred Street and U.S. Highway 80.

Owner: Layne-Atlantic Co.

AQUIFER.—Principal artesian aquifer.

WELL CHARACTERISTICS.—Drilled unused industrial well, diameter 4 in. (10.1 cm), depth 406 ft (123.7 m), cased to 250 ft (76.2 m), open hole.

DATUM.—Altitude of land-surface is 9.91 ft (3.021 m) National Geodetic Vertical Datum of 1929.

Measuring point: Top of 3 in. (7.6 cm) casing, 1.0 ft (0.30 m) above land-surface datum.

REMARKS.—Water levels for period of missing recorder record, Jan. 1-4 were estimated.

PERIOD OF RECORD.—February 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level, 49.17 ft (14.987 m) below land-surface datum, July 11, 1954; lowest, 124.40 ft (37.917 m) below land-surface datum, August 30, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120.25	115.85	113.40	93.00	107.50	104.50	99.75	108.60	109.50	114.90	113.10	112.85
2	120.10	115.65	113.80	95.00	107.30	104.75	100.15	107.60	110.80	114.50	112.30	112.90
3	120.10	116.05	114.20	99.00	107.90	105.60	100.20	107.20	111.20	114.20	112.00	113.20
4	119.30	117.25	114.20	105.00	108.00	105.40	100.10	107.00	110.40	111.00	110.80	113.10
5	118.85	116.80	114.15	110.00	108.10	105.50	99.70	108.00	110.10	106.70	111.90	112.45
6	119.25	116.75	113.90	110.10	107.80	105.80	100.20	108.20	110.30	104.00	112.50	113.00
7	119.35	116.50	113.35	108.50	107.00	105.40	101.10	108.00	109.60	104.20	112.60	108.70
8	119.45	116.45	114.20	108.50	106.40	104.80	101.55	108.00	109.00	106.60	112.30	104.45
9	119.25	116.00	116.00	108.70	106.50	105.90	101.50	107.40	108.50	108.90	112.10	102.20
10	119.10	116.10	116.55	108.95	106.70	106.80	101.10	106.80	109.20	111.60	112.60	102.40
11	119.20	116.85	116.70	108.90	107.20	105.95	101.85	106.70	110.20	113.60	113.10	105.45
12	118.65	117.20	116.30	108.85	107.55	105.75	101.70	107.40	111.35	114.10	114.00	107.15
13	119.00	117.75	115.80	109.30	107.55	104.95	102.10	108.20	110.00	114.40	114.15	107.45
14	119.50	117.50	115.65	110.60	107.55	104.85	102.70	108.40	111.40	113.80	114.10	107.50
15	119.70	116.70	115.15	110.50	107.55	104.60	103.10	108.80	111.20	114.30	113.60	107.90
16	119.15	116.30	114.80	110.50	107.40	103.90	103.40	109.30	111.60	115.20	113.00	108.40
17	119.70	116.10	114.80	109.65	107.80	104.30	103.50	109.20	112.20	115.20	113.10	109.00
18	119.40	116.10	115.40	110.00	107.75	104.40	103.50	109.70	112.80	114.90	113.10	109.20
19	118.40	116.20	116.40	110.30	107.90	104.20	103.50	109.80	113.00	113.95	113.00	108.85
20	118.00	116.40	116.25	110.15	108.00	104.60	103.40	110.40	113.30	113.70	113.10	108.60
21	119.00	116.20	115.05	109.50	107.70	105.15	103.55	110.00	114.30	114.20	113.65	108.65
22	119.60	116.15	114.10	109.65	107.30	104.20	104.00	110.30	114.30	114.60	113.25	108.50
23	118.60	115.40	113.70	109.40	107.10	103.80	103.70	109.60	114.50	115.00	113.10	109.30
24	117.60	115.20	109.80	109.10	106.85	103.50	103.60	108.70	114.50	115.65	112.50	109.65
25	116.90	115.70	102.50	108.55	106.50	102.95	103.90	108.80	114.75	115.45	112.70	109.70
26	116.70	115.70	98.00	108.30	106.15	102.40	104.35	109.20	114.40	114.70	112.80	110.00
27	116.70	114.70	95.00	109.40	105.75	102.20	104.60	109.50	114.10	114.25	112.90	110.10
28	116.60	113.70	93.01	110.80	105.25	101.10	105.90	109.70	113.50	115.25	113.00	110.10
29	116.60	113.75	93.01	110.30	---	100.30	107.70	109.60	114.00	115.40	112.80	110.70
30	116.40	113.60	93.01	108.70	---	99.80	108.70	109.20	114.70	113.90	112.40	111.20
31	116.25	---	93.01	108.00	---	99.80	---	108.80	---	113.10	112.05	---
MEAN	118.60	116.02	110.36	107.97	107.22	104.10	102.80	108.65	111.96	112.94	112.83	109.09

WTR YR 1981 MEAN 110.24 HIGH 93.00 LOW 120.25

CLAY COUNTY

313637085032601 Local number, 5L1.

LOCATION.--Lat 31°36'37", long 85°03'26", Hydrologic Unit 03130004, between Chattahoochee River and Ft. Gaines waterplant. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled observation well, diameter 3 in. (7.6 cm), depth 120 ft (36.6 m), cased to 44 ft (13.4 m), open hole.

DATUM.--Altitude of land-surface is 146.7 ft (44.71 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of floor of recorder shelter, 2.7 ft (0.82 m) above land-surface datum.

REMARKS.--Water levels for periods of missing recorder record, Dec. 2-12, Jan. 22 to Feb. 4, Feb. 25 to Apr. 7, and June 29 to Aug. 13 were estimated.

PERIOD OF RECORD.--May 23, 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.86 ft (5.749 m) below land-surface datum, February 17, 1966; lowest, 35.88 ft (10.936 m) below land-surface datum, August 17, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.68	32.32	32.33	32.28	32.55	31.80	29.45	31.34	31.65	31.69	31.40	31.47
2	31.70	32.41	32.23	32.33	32.68	31.20	27.60	31.52	31.49	31.65	31.97	31.51
3	31.54	32.07	32.23	32.41	32.50	31.50	27.05	31.62	31.37	31.83	31.90	31.75
4	31.89	31.94	32.24	32.41	32.48	30.02	27.75	31.38	31.39	32.03	31.72	31.74
5	32.17	31.91	32.24	31.94	32.47	31.25	28.65	31.32	31.35	31.96	31.50	32.01
6	31.92	31.92	32.24	31.54	32.57	32.00	29.24	31.34	31.68	31.77	31.26	32.13
7	31.67	31.94	32.24	32.18	32.79	31.85	29.45	31.39	31.83	31.79	31.43	31.83
8	31.58	32.23	32.23	32.25	32.87	31.75	29.64	31.48	31.50	31.81	31.70	31.71
9	31.57	32.40	32.23	32.25	32.69	31.70	29.94	31.66	31.40	31.80	31.99	31.70
10	31.56	32.10	32.23	32.25	32.44	31.80	30.00	31.61	31.42	31.98	31.85	31.72
11	31.98	32.02	32.23	32.25	31.15	31.85	30.67	31.50	31.44	32.08	31.64	31.57
12	32.27	31.98	32.23	32.25	29.45	31.90	30.95	31.43	31.42	32.16	31.40	32.00
13	31.88	31.97	32.23	32.32	28.31	32.10	30.66	31.44	31.66	31.95	31.25	32.26
14	31.72	31.93	32.23	32.41	29.78	32.28	30.83	31.40	31.80	31.70	31.22	31.66
15	31.29	32.19	32.09	32.28	29.80	32.00	30.95	31.27	31.56	31.78	31.31	31.74
16	31.57	32.41	32.06	32.24	30.20	31.75	30.95	31.71	31.46	31.82	31.25	31.72
17	31.58	32.03	32.11	32.41	29.70	31.70	30.90	31.90	31.45	31.80	31.75	31.74
18	32.01	32.02	32.13	32.41	30.22	31.70	31.09	31.34	31.47	31.92	31.56	31.78
19	32.18	32.07	32.13	32.29	29.53	31.73	31.14	31.43	31.47	32.11	31.57	32.11
20	31.79	32.03	32.40	32.23	30.17	32.25	31.01	31.49	31.75	32.02	31.54	32.27
21	31.67	32.03	32.41	32.32	30.48	32.15	30.86	31.55	31.90	31.94	31.56	32.00
22	31.71	32.34	32.19	32.30	30.84	31.95	30.98	31.55	31.63	31.68	31.57	31.86
23	31.75	32.41	32.14	32.32	30.34	32.05	31.04	31.82	31.54	31.69	31.97	31.87
24	31.71	32.10	32.15	32.51	30.82	32.10	30.82	32.01	31.53	31.68	32.13	31.92
25	32.14	32.06	32.19	32.60	30.85	32.14	31.10	31.76	31.55	31.84	31.38	31.88
26	32.35	31.44	32.14	32.50	30.90	32.18	31.43	31.49	31.53	32.00	31.26	32.20
27	32.01	31.73	32.38	32.22	31.50	32.20	31.25	31.29	31.88	31.90	31.36	32.33
28	31.79	31.79	32.41	32.22	32.50	32.31	31.16	31.27	32.03	31.55	31.49	31.77
29	31.90	32.07	32.21	32.21	---	32.35	31.16	31.27	31.71	31.40	31.56	31.85
30	31.84	32.36	32.18	32.25	---	32.15	30.86	31.30	31.70	31.41	32.00	31.91
31	32.00	---	32.18	32.30	---	31.55	---	31.70	---	31.40	32.13	---
MEAN	31.82	32.07	32.22	32.28	31.16	31.85	30.29	31.50	31.59	31.81	31.60	31.87

WTR YR 1981 MEAN 31.68 HIGH 27.05 LOW 32.87

COOK COUNTY

310813083260301 Local number, 18H16.

LOCATION.--Lat 31°08'13", long 83°26'03", Hydrologic Unit 03110203, on West Second Street near intersection of Georgia Highways 76 and 37.

Owner: U.S. Geological Survey, Adel test well.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in. (20.3 cm), depth 865 ft (263.6 m), cased to 207 ft (63.1 m), open hole.

DATUM.--Altitude of land-surface is 241 ft (73.5 m) National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 2.66 ft (0.811 m) above land-surface datum.

REMARKS.--Well pumped July 19, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted October 24, 1974. Water levels for period of missing recorder record, July 10 to Sept. 3 were estimated.

PERIOD OF RECORD.--December 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 163.34 ft (49.786 m) below land-surface datum, July 5, 1966; lowest, 173.87 ft (52.996 m) below land-surface datum, June 30, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170.43	170.77	170.80	170.53	170.62	170.49	170.50	171.26	172.47	173.83	173.74	173.07
2	170.51	170.72	170.91	170.81	170.70	170.53	170.61	171.31	172.70	173.52	173.69	173.03
3	170.49	170.80	171.06	170.76	171.23	170.63	170.60	171.37	172.55	173.41	173.65	172.95
4	170.53	170.70	171.09	170.58	171.23	170.48	170.49	171.53	172.31	173.41	173.62	172.86
5	170.49	170.68	171.00	170.93	171.21	170.19	170.41	171.73	172.27	173.41	173.63	172.74
6	170.70	170.78	170.98	170.91	171.15	170.39	170.62	171.38	172.23	173.41	173.65	172.64
7	170.77	170.79	170.91	170.65	170.83	170.44	170.75	171.06	172.06	173.29	173.62	172.64
8	170.77	170.71	170.95	170.78	170.60	170.53	170.75	171.15	172.01	173.39	173.57	172.66
9	170.81	170.63	170.93	170.78	170.83	170.73	170.76	171.08	172.02	173.42	173.53	172.67
10	170.98	170.73	170.73	170.80	170.78	170.77	170.84	170.98	172.22	173.48	173.51	172.73
11	170.98	170.87	170.92	170.77	170.73	170.73	170.77	171.02	172.28	173.55	173.46	172.88
12	170.77	171.01	170.96	171.00	171.38	170.78	170.63	171.26	172.28	173.58	173.40	172.94
13	171.01	171.12	170.82	171.18	171.42	170.60	170.67	171.42	172.25	173.54	173.40	172.88
14	171.24	171.03	170.74	171.10	171.19	170.58	170.85	171.55	172.17	173.45	173.36	172.90
15	171.23	170.77	170.63	170.95	170.97	170.54	171.08	171.61	172.30	173.40	173.30	173.04
16	171.22	170.72	170.50	170.99	170.92	170.32	171.15	171.91	172.49	173.40	173.29	172.97
17	171.17	170.70	170.66	171.07	170.83	170.53	171.08	171.90	172.66	173.48	173.35	172.93
18	171.08	170.72	170.88	170.99	170.77	170.23	171.00	172.00	172.82	173.57	173.40	172.88
19	170.96	171.00	170.91	170.84	170.59	170.23	170.94	172.00	173.03	173.64	173.47	172.89
20	170.94	171.09	170.93	170.70	170.49	170.44	170.90	171.92	173.14	173.63	173.45	172.83
21	171.14	171.08	170.94	170.72	170.53	170.40	170.97	172.16	173.15	173.61	173.29	172.86
22	171.11	171.11	171.05	170.86	170.31	170.11	170.92	172.41	173.14	173.32	173.22	172.94
23	171.07	170.87	171.01	170.76	170.42	170.24	170.68	172.72	173.33	173.65	173.18	173.11
24	170.94	170.79	170.74	170.58	170.61	170.53	170.55	172.71	173.51	173.38	173.18	173.28
25	170.80	170.97	170.74	170.60	170.75	170.58	170.55	172.72	173.66	173.71	173.20	173.48
26	170.84	170.93	170.77	170.69	170.75	170.73	170.62	172.67	173.69	173.74	173.19	173.47
27	170.82	170.60	170.74	170.68	170.79	170.79	170.77	172.37	173.68	173.77	173.17	173.44
28	170.73	170.57	170.63	170.71	170.85	170.77	171.04	171.98	173.75	173.79	173.08	173.44
29	170.78	170.66	170.52	170.88	---	170.57	171.07	171.97	173.67	173.78	173.05	173.54
30	170.79	170.73	170.56	170.93	---	170.42	171.16	172.05	173.87	173.78	173.08	173.65
31	170.84	---	170.63	170.91	---	170.54	---	172.21	---	173.76	173.09	---
MEAN	170.87	170.82	170.83	170.82	170.84	170.51	170.79	171.79	172.79	173.55	173.38	173.01

WTR YR 1981 MEAN 171.67 HIGH 170.11 LOW 173.87

DECATUR COUNTY

305736084355801 Local number, 9F520.
LOCATION.--Lat 30°57'36", long 84°35'58", Hydrologic Unit 03130008, U.S. 27 north of Bainbridge, right on dirt road near John Deere tractor dealership.
Owner: Graham Bolton.
AQUIFER.--Principal artesian aquifer.
WELL CHARACTERISTICS.--Unused private irrigation well, diameter 12 in. (30.5 cm), depth 251 ft (76.5 m), cased to 130 ft (39.6 m), open hole.
DATUM.--Altitude of land-surface datum is 128 ft (39 m), from topographic map.
Measuring point: Floor of recorder shelter, 3.50 ft (1.067 m) above land-surface datum.
REMARKS.--This well is about 15 ft (4.6 m) from pumped well.
PERIOD OF RECORD.--June 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.75 ft (11.201 m) below land-surface datum, April 24, 1975; lowest, 54.78 ft (16.697 m) below land-surface datum, August 20, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47.59	48.51	49.07	49.40	49.73	48.12	47.82	47.57	49.19	51.17	50.67	50.33
2	47.62	48.53	49.08	49.42	49.79	48.15	47.79	47.63	49.21	53.63	50.65	50.31
3	47.65	48.54	49.10	49.41	49.80	48.11	47.73	47.67	49.26	52.89	50.65	50.29
4	47.68	48.56	49.09	49.44	49.80	48.15	47.67	47.72	49.28	49.85	50.66	50.27
5	47.72	48.58	49.10	49.46	49.81	48.15	47.58	47.79	50.81	49.82	50.66	50.25
6	47.75	48.61	49.11	49.44	49.81	48.15	47.48	47.82	52.96	50.02	50.65	50.22
7	47.77	48.61	49.12	49.47	49.79	48.15	47.34	47.84	49.43	49.89	50.63	50.18
8	47.80	48.63	49.12	49.48	49.81	48.15	47.20	47.86	49.41	49.95	50.63	50.16
9	47.84	48.65	49.14	49.49	49.84	48.14	47.07	47.87	49.36	51.09	50.64	50.14
10	47.87	48.68	49.17	49.50	49.82	48.14	47.00	47.88	49.33	54.27	50.64	50.13
11	47.89	48.71	49.19	49.50	49.88	48.11	46.97	47.92	49.34	52.40	50.64	50.12
12	47.93	48.73	49.21	49.52	49.82	48.11	46.98	47.99	49.32	50.12	50.65	50.10
13	47.97	48.76	49.21	49.51	49.71	48.10	46.98	48.11	49.28	50.15	50.66	50.09
14	48.00	50.63	49.22	49.52	49.57	48.14	47.01	48.17	49.24	51.57	50.65	50.12
15	48.03	48.79	49.21	49.54	49.43	48.12	47.05	50.88	49.22	54.18	50.62	50.11
16	48.07	48.82	49.23	49.56	49.27	48.16	47.05	48.86	49.24	52.97	50.59	50.08
17	48.10	48.82	49.27	49.58	49.09	48.18	47.05	48.43	49.31	51.41	50.57	50.07
18	48.12	48.87	49.27	49.58	48.91	48.13	49.50	48.50	49.39	54.04	50.59	50.06
19	48.15	48.89	49.29	49.57	48.72	48.20	47.92	48.54	49.44	53.30	53.51	50.22
20	48.19	48.91	49.30	49.59	48.55	48.21	47.17	48.55	50.71	50.41	54.78	50.04
21	48.21	48.93	49.30	49.63	48.40	48.21	47.21	48.64	51.85	50.41	51.81	50.03
22	48.25	48.94	49.29	49.64	48.29	48.18	47.20	48.74	49.61	51.62	50.66	50.04
23	48.29	48.95	49.31	49.64	48.23	48.20	47.23	48.79	49.64	54.23	50.62	50.07
24	48.31	48.98	49.31	49.66	48.13	48.13	47.27	48.87	50.67	53.42	50.57	50.11
25	48.34	49.01	49.34	49.67	48.11	48.07	47.36	51.09	51.55	50.58	50.53	50.15
26	48.37	49.01	49.33	49.68	48.10	48.02	47.40	51.51	49.67	50.58	50.50	50.13
27	48.38	49.04	49.34	49.69	48.10	47.97	50.07	49.00	49.64	50.58	50.47	50.14
28	48.42	49.06	49.33	49.72	48.09	47.93	48.50	48.98	49.64	51.67	50.44	50.18
29	48.46	49.07	49.35	49.74	---	47.89	47.59	49.02	49.64	54.20	50.40	50.22
30	48.48	49.08	49.37	49.75	---	47.88	47.58	49.11	49.70	52.12	50.37	50.24
31	48.50	---	49.38	49.76	---	47.86	---	49.15	---	50.70	50.35	---
MEAN	48.06	48.86	49.23	49.57	49.16	48.10	47.53	48.60	49.81	51.72	50.85	50.15

WTR YR 1981 MEAN 49.31 HIGH 46.97 LOW 54.78

DOUGHERTY COUNTY

313530084203201 Local number, 11L2.

LOCATION.—Lat 31°35'32", long 84°20'35", Hydrologic Unit 03130008, Tallahassee Plantation, 10.4 mi (16.7 km) west of Albany.
Owner: Georgia Department of Natural Resources.

AQUIFER.—Clayton Limestone.

WELL CHARACTERISTICS.—Drilled observation well, diameter 3 in. (7.6 cm), depth 656 ft (199.9 m), cased to 542 ft (165.2 m), open hole.

DATUM.—Altitude of land-surface datum is 222 ft (68 m), from topographic map.
Measuring point: Floor of recorder shelter, 3.02 ft (0.920 m) above land-surface datum.

REMARKS.—Well pumped April 1976; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 3, 1975. Water levels for periods of missing recorder record, Oct. 3-21 and Oct. 24 to Nov. 22 were estimated.

PERIOD OF RECORD.—September 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level, 58.90 ft (17.953 m) below land-surface datum, April 29, 1975; lowest, 123.45 ft (37.628 m) below land-surface datum, August 2, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114.63	107.30	100.57	95.64	94.06	92.68	91.17	94.42	111.43	120.38	123.35	116.29
2	114.61	107.20	100.35	95.64	94.02	92.61	91.15	95.48	111.57	121.25	123.45	116.22
3	114.10	107.10	100.29	95.44	94.25	92.62	91.00	96.46	111.60	121.78	123.40	116.30
4	114.10	107.05	100.31	95.25	94.20	92.44	90.93	97.17	111.59	121.68	123.16	116.45
5	114.10	106.80	100.28	95.28	94.12	92.33	90.90	97.53	111.62	121.36	122.83	116.67
6	113.90	106.60	100.20	95.15	94.00	92.44	90.90	97.88	111.53	121.00	122.42	116.87
7	113.20	106.50	99.98	94.97	93.77	92.42	90.69	98.41	111.53	120.62	122.05	116.87
8	113.10	106.30	99.70	94.89	93.63	92.35	90.64	98.86	111.38	120.26	121.76	116.80
9	113.10	105.90	99.37	94.73	93.70	92.55	90.96	99.06	111.80	119.83	121.47	116.52
10	112.70	105.40	99.15	94.61	93.53	92.42	91.25	98.94	112.05	119.37	121.15	116.45
11	112.20	104.90	99.06	94.58	93.34	92.40	91.53	98.77	112.10	119.00	120.79	116.65
12	112.00	104.50	98.92	94.58	93.42	92.27	91.82	98.65	112.15	118.58	120.40	116.83
13	111.95	104.30	98.78	94.58	93.42	92.17	92.12	98.74	111.85	118.33	119.98	116.81
14	112.00	104.00	98.60	94.56	93.34	92.24	92.40	100.00	111.58	117.93	119.67	116.84
15	111.50	103.95	98.32	94.56	93.23	92.31	92.68	101.83	111.26	118.10	119.29	116.94
16	111.10	103.80	98.00	94.59	93.14	92.38	92.97	103.07	110.89	118.41	118.82	116.97
17	111.30	103.60	97.73	94.70	92.97	92.38	93.26	104.13	110.29	118.78	118.51	117.30
18	110.90	103.57	97.64	94.72	92.80	92.24	93.55	104.90	110.48	119.18	118.31	117.56
19	110.60	103.47	97.52	94.60	92.64	92.18	93.83	105.43	110.99	119.70	118.00	117.59
20	110.50	103.23	97.52	94.40	92.53	92.19	94.10	105.92	111.68	120.42	117.72	117.45
21	110.20	102.98	97.51	94.23	92.54	92.19	94.32	106.56	112.75	121.22	117.69	117.20
22	110.27	102.78	97.36	94.22	92.53	92.20	94.56	107.42	113.77	121.63	117.83	117.02
23	110.17	102.45	97.12	94.13	92.62	92.18	94.37	108.35	114.71	121.78	118.02	116.94
24	109.75	102.08	96.85	94.12	92.67	92.08	94.18	109.21	115.64	121.95	118.02	117.17
25	109.10	101.88	96.78	94.12	92.72	91.90	94.16	109.95	116.46	122.13	117.84	117.52
26	108.75	101.60	96.67	94.13	92.77	91.77	94.14	110.62	117.02	122.22	117.72	117.60
27	108.50	101.27	96.44	94.12	92.80	91.71	94.01	111.25	117.52	122.31	117.60	117.70
28	108.20	101.10	95.78	94.12	92.77	91.69	93.80	111.62	118.18	122.54	117.45	117.65
29	107.80	100.73	95.61	94.12	---	91.56	93.77	111.74	118.87	122.82	117.17	117.62
30	107.60	100.78	95.67	94.12	---	91.30	93.75	111.64	119.56	122.97	116.82	117.60
31	107.55	---	95.67	94.12	---	91.21	---	111.43	---	123.18	116.47	---
MEAN	111.27	104.10	98.19	94.61	93.27	92.17	92.63	103.40	113.13	120.67	119.65	117.01

WTR YR 1981 MEAN 105.09 HIGH 90.64 LOW 123.45

DOUGHERTY COUNTY

313554084062601 Local number, 13L2.

LOCATION.--Lat 31°35'54", long 84°06'25", Hydrologic Unit 03130008, Malone and Gardner Avenue near main entrance to Turner Field, Albany.

Owner: City of Albany, Turner City.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 12 in. (30.5 cm) and 8 in. (20.3 cm), depth 760 ft (231.6 m), cased to 713 ft (217.3 m), open hole.

DATUM.--Altitude of land-surface is 212.84 ft (64.874 m) National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.2 ft (0.98 m) above land-surface datum.

REMARKS.--Well pumped and sounded to a depth of 760 ft (231.6 m), June 21, 1978: water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted March 17, 1977. Water levels for periods of missing recorder record, Nov. 15 to Dec. 16, Jan. 11-14, Mar. 13-22, and Apr. 25-28 were estimated.

PERIOD OF RECORD.--December 1957 to December 1959, January 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.19 ft (11.640 m) below land-surface datum, April 1, 1959; lowest, 153.04 ft (46.647 m) below land-surface datum, August 1, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143.76	138.70	129.75	129.00	125.71	127.93	123.47	131.34	142.92	146.64	153.04	146.09
2	143.51	139.10	129.43	128.95	125.17	127.51	123.89	132.66	143.03	147.08	152.99	146.74
3	143.23	138.72	130.54	128.16	125.03	127.72	124.63	133.44	141.44	147.24	152.95	147.02
4	143.25	138.09	130.37	127.31	124.84	127.72	126.03	133.72	142.45	146.92	152.94	147.24
5	142.74	137.93	130.32	126.61	124.83	127.45	126.35	134.35	142.45	144.48	152.85	146.91
6	142.79	136.70	130.59	127.11	124.90	127.45	125.96	135.28	142.57	142.03	152.69	146.59
7	142.26	137.07	131.87	125.33	125.17	125.76	124.03	135.96	142.78	144.01	152.58	145.95
8	141.44	137.06	132.98	126.23	125.41	123.44	125.45	135.54	142.72	144.72	152.58	145.69
9	141.56	135.79	133.80	124.95	125.96	123.16	126.07	135.76	142.59	145.09	152.56	145.78
10	142.21	134.44	134.02	126.03	126.18	125.68	126.07	134.76	142.86	145.25	152.55	146.01
11	142.49	134.59	133.04	126.06	126.68	126.62	125.39	134.93	143.35	145.50	152.21	146.27
12	142.08	134.40	133.74	125.57	127.11	126.74	125.60	135.21	143.65	145.67	151.68	146.47
13	140.94	134.07	133.07	125.07	127.34	126.73	125.42	135.50	143.52	145.35	149.45	146.54
14	140.98	133.62	133.75	124.58	127.32	126.12	126.36	135.95	143.68	145.10	149.26	146.25
15	140.24	134.03	133.27	124.95	126.88	125.43	126.80	136.26	143.52	145.82	148.36	146.32
16	139.77	133.83	132.64	125.23	126.25	124.00	126.89	137.02	143.23	146.29	147.91	146.51
17	141.20	133.84	132.05	125.98	125.67	122.15	126.87	137.03	143.62	146.91	147.49	146.62
18	141.68	133.74	132.77	126.59	125.61	121.65	126.64	137.76	144.29	147.56	147.21	146.47
19	141.51	133.68	131.91	126.87	126.05	122.10	126.29	138.45	144.75	147.84	147.22	146.11
20	141.58	133.38	131.89	126.85	126.57	122.21	127.97	139.10	145.26	147.83	147.25	145.86
21	141.80	132.40	131.83	126.26	127.04	122.35	127.85	140.00	145.60	148.01	147.23	145.63
22	141.38	131.22	131.33	123.89	127.52	122.48	126.91	140.65	145.59	148.61	147.13	145.68
23	141.53	130.67	129.93	124.75	127.11	122.55	127.25	141.51	145.87	149.34	146.82	146.19
24	141.06	131.32	129.11	125.16	124.94	122.90	127.49	142.32	146.37	150.13	146.38	146.35
25	140.33	131.16	128.58	125.62	126.41	124.84	127.55	142.87	146.72	150.76	145.99	146.35
26	140.46	131.52	126.89	125.62	127.17	124.96	127.84	143.29	147.04	151.17	145.79	146.35
27	140.32	130.77	125.97	125.58	127.44	124.95	128.36	143.39	147.15	151.36	146.45	145.48
28	139.89	130.92	125.82	125.85	128.11	124.67	128.64	143.02	147.37	151.73	146.65	143.37
29	139.68	130.22	128.55	126.24	---	123.31	128.82	142.46	147.35	152.21	146.60	145.29
30	139.45	130.01	130.24	126.35	---	121.80	129.28	142.40	147.11	152.68	146.28	145.88
31	138.95	---	129.62	126.25	---	121.68	---	142.75	---	153.01	146.03	---
MEAN	141.42	134.10	130.96	126.10	126.23	124.65	126.54	137.89	144.36	147.62	149.26	146.13

WTR YR 1981 MEAN 136.34 HIGH 121.65 LOW 153.04

313748084002901 Local number, 13L3.

LOCATION.—Lat 31°37'48", long 84°00'29", Hydrologic Unit 03130008, near northeast corner of Marine Corps Supply Center, Acree, Ga.

Owner: City of Albany and Dougherty County.

AQUIFER.—Principal artesian aquifer.

WELL CHARACTERISTICS.—Drilled unused supply well, diameter 6 in. (15.2 cm), depth 259 ft (78.9 m), cased to 206 ft (62.8 m), open hole.

DATUM.—Altitude of land-surface is 225 ft (68.6 m) National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 4.10 ft (1.250 m) above land-surface datum.

REMARKS.—Well pumped and sounded June 21, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted March 17, 1977.

PERIOD OF RECORD.—January 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level, 17.41 ft (5.307 m) below land-surface datum, April 2, 1965; lowest, 43.89 ft (13.378 m) below land-surface datum, December 26, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34.73	36.23	37.36	38.60	39.53	38.62	39.63	40.13	41.55	42.75	43.59	42.53
2	34.78	36.28	37.39	38.68	39.63	38.78	39.28	40.24	41.58	42.80	43.50	42.58
3	34.84	36.33	37.49	38.63	39.76	38.93	38.75	40.33	41.53	42.70	43.44	42.60
4	34.92	36.31	37.49	38.72	39.68	38.91	38.39	40.40	41.57	42.63	43.44	42.60
5	35.00	36.38	37.52	38.85	39.73	38.96	38.19	40.39	41.53	42.60	43.45	42.62
6	35.10	36.45	37.58	38.77	39.73	39.11	37.91	40.44	41.47	42.64	43.45	42.63
7	35.10	36.45	37.64	38.73	39.71	39.14	37.64	40.54	41.59	42.71	43.47	42.58
8	35.15	36.49	37.66	38.88	39.77	39.16	37.81	40.58	41.60	42.67	43.48	42.62
9	35.23	36.56	37.67	38.91	39.87	39.18	38.17	40.63	41.58	42.65	43.37	42.68
10	35.30	36.63	37.78	38.95	39.83	39.22	38.48	40.67	41.64	42.64	43.14	42.73
11	35.35	36.69	37.85	38.98	39.80	39.25	38.67	40.70	41.67	42.75	42.99	42.78
12	35.45	36.73	37.87	39.02	39.63	39.31	38.82	40.73	41.75	42.83	42.90	42.84
13	35.55	36.77	37.88	38.97	39.13	39.34	39.00	40.78	41.77	42.88	42.80	42.88
14	35.60	36.77	37.95	39.02	38.55	39.45	39.21	40.83	41.83	42.91	42.77	42.95
15	35.67	36.77	37.95	39.12	38.07	39.46	39.42	40.87	41.90	43.01	42.74	42.97
16	35.67	36.83	37.94	39.23	37.62	39.52	39.52	40.92	41.93	43.05	42.69	43.00
17	35.67	36.90	38.05	39.30	37.30	39.57	39.53	40.96	42.02	43.08	42.72	43.06
18	35.67	36.99	38.10	39.28	37.19	39.47	39.51	41.00	42.07	43.17	42.78	43.11
19	35.70	37.03	38.15	39.24	37.19	39.63	39.51	41.05	42.15	43.25	42.79	43.13
20	35.80	36.98	38.25	39.27	37.38	39.72	39.60	41.08	42.26	43.27	42.84	43.12
21	35.87	37.07	38.33	39.32	37.68	39.75	39.69	41.13	42.31	43.31	42.89	43.14
22	35.90	37.16	38.32	39.38	37.81	39.67	39.70	41.18	42.35	43.44	42.94	43.22
23	35.95	37.08	38.25	39.34	37.95	39.70	39.68	41.22	42.38	43.52	42.86	43.34
24	35.97	37.14	38.25	39.39	38.06	39.71	39.77	41.28	42.40	43.61	42.72	43.45
25	35.95	37.24	38.36	39.47	38.08	39.69	39.84	41.32	42.44	43.65	42.60	43.53
26	36.04	37.18	38.39	39.50	38.19	39.68	39.90	41.36	42.47	43.57	42.57	43.55
27	36.07	37.15	38.39	39.48	38.41	39.68	39.97	41.30	42.55	43.48	42.61	43.56
28	36.07	37.24	38.40	39.55	38.54	39.67	40.00	41.43	42.57	43.57	42.63	43.60
29	36.15	37.30	38.44	39.62	---	39.66	40.06	41.37	42.74	43.67	42.58	43.64
30	36.22	37.36	38.50	39.59	---	39.63	40.08	41.46	42.73	43.71	42.53	43.69
31	36.23	---	38.53	39.62	---	39.62	---	41.51	---	43.67	42.57	---
MEAN	35.57	36.82	37.99	39.14	38.71	39.39	39.19	40.90	42.00	43.10	42.96	43.02

WTR YR 1981 MEAN 39.91 HIGH 34.73 LOW 43.71

FULTON COUNTY

334207084254801 Local number, 10DD2.

LOCATION.--Lat 33°42'07", long 84°25'48", Hydrologic Unit 03130002, 0.25 mi (0.4 km) south of main entrance, 260 ft (79.2 m) west of Roosevelt Highway.
Owner: U.S. Army, Ft. McPherson.

AQUIFER.--Biotite Gneiss.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 12 in. (30.5 cm), depth 338 ft (103.0 m), cased to 41 ft (12.5 m), open hole.

DATUM.--Altitude of land-surface datum is 1,013 ft (309 m), from topographic map.
Measuring point: At land-surface datum.

REMARKS.--Well pumped and sounded February 14, 1976, to a depth of 338 ft (103.0 m). Borehole geophysical survey conducted November 19, 1974. Water levels for period of missing recorder record, July 21 to Aug. 31 were estimated.

PERIOD OF RECORD.--November 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.10 ft (0.030 m) below land-surface datum, March 30, 1980; lowest, 7.52 ft (2.292 m) below land-surface datum, November 8, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.93	5.80	5.67	5.30	4.60	3.50	3.20	3.70	4.43	4.57	5.42	5.95
2	5.87	5.83	5.65	5.44	4.50	3.53	3.10	3.80	4.40	4.67	5.43	5.85
3	5.87	5.87	5.71	5.40	4.55	3.65	3.07	3.90	4.40	4.67	5.45	5.87
4	5.90	5.75	5.76	5.40	4.53	3.57	3.15	3.90	4.43	4.55	5.50	5.73
5	5.93	5.73	5.67	5.50	4.53	3.40	3.15	3.87	4.45	4.53	5.55	5.56
6	6.03	5.77	5.67	5.40	4.47	3.50	3.20	3.85	4.37	4.55	5.60	5.54
7	5.95	5.73	5.67	5.25	4.40	3.57	3.20	3.90	4.33	4.55	5.62	5.53
8	5.85	5.67	5.65	5.33	4.37	3.65	3.17	4.03	4.25	4.57	5.62	5.50
9	5.83	5.67	5.60	5.36	4.53	3.67	3.17	4.07	4.23	4.58	5.65	5.55
10	5.83	5.73	5.47	5.45	4.30	3.65	3.23	4.00	4.27	4.60	5.70	5.60
11	5.80	5.77	5.41	5.45	3.93	3.60	3.25	4.00	4.37	4.63	5.75	5.65
12	5.85	5.83	5.40	5.45	3.95	3.60	3.25	4.10	4.44	4.65	5.80	5.65
13	5.93	5.83	5.35	5.37	3.97	3.57	3.30	4.17	4.47	4.63	5.85	5.63
14	5.93	5.75	5.40	5.23	3.95	3.60	3.35	4.13	4.50	4.65	5.90	5.63
15	5.93	5.65	5.31	5.27	3.93	3.63	3.47	4.13	4.53	4.67	5.95	5.63
16	5.93	5.65	5.21	5.43	3.90	3.55	3.53	4.25	4.53	4.73	6.00	5.63
17	5.87	5.65	5.35	5.55	3.90	3.63	3.45	4.30	4.55	4.80	6.02	5.70
18	5.80	5.65	5.42	5.50	3.70	3.50	3.43	4.27	4.60	4.87	6.05	5.72
19	5.77	5.80	5.42	5.37	3.30	3.55	3.40	4.20	4.65	4.97	6.10	5.72
20	5.83	5.80	5.51	5.27	3.13	3.70	3.35	4.25	4.67	5.00	6.15	5.70
21	5.87	5.77	5.57	5.30	3.20	3.75	3.45	4.37	4.73	5.05	6.20	5.72
22	5.90	5.80	5.52	5.43	3.23	3.70	3.55	4.40	4.77	5.05	6.25	5.76
23	5.95	5.85	5.42	5.37	3.27	3.73	3.45	4.45	4.83	5.07	6.30	5.80
24	5.93	5.60	5.25	5.25	3.40	3.81	3.43	4.45	5.17	5.10	6.35	5.90
25	5.83	5.70	5.42	5.40	3.53	3.83	3.53	4.50	4.23	5.15	6.40	5.93
26	5.90	5.72	5.42	5.37	3.55	3.85	3.65	4.45	4.03	5.20	6.42	5.93
27	5.87	5.58	5.40	5.85	3.60	3.85	3.68	4.37	4.10	5.22	6.44	5.95
28	5.80	5.55	5.28	5.21	3.60	3.87	3.67	4.37	4.27	5.25	6.35	5.97
29	5.85	5.62	5.26	4.67	---	3.80	3.66	4.44	4.45	5.30	6.25	6.05
30	5.87	5.69	5.28	4.70	---	3.53	3.67	4.50	4.53	5.35	6.10	6.11
31	5.85	---	5.29	4.75	---	3.30	---	4.53	---	5.40	6.00	---
MEAN	5.88	5.73	5.46	5.32	3.92	3.63	3.37	4.18	4.47	4.86	5.94	5.75

WTR YR 1981 MEAN 4.88 HIGH 3.07 LOW 6.44

GLYNN COUNTY

310726081285801 Local number, 34G1.

LOCATION.--Lat 31°07'26", long 81°28'58", Hydrologic Unit 03070203, Babcock and Wilcox yards near Newcastle Street and King Shrimp Co. in Brunswick.
Owner: Babcock and Wilcox Co.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused industrial well, diameter 18 in. (45.7 cm), depth 1,006 ft (306.6 m), cased to 589 ft (179.5 m), open hole.

DATUM.--Altitude of land-surface is 9 ft (2.7 m) National Geodetic Vertical Datum of 1929.
Measuring point: Center of recorder, 2.0 ft (0.61 m) above land-surface datum.

REMARKS.--Borehole geophysical survey conducted May 28, 1964. Water levels for periods of missing recorder record, Apr. 2 and Sept. 23-30 were estimated.

PERIOD OF RECORD.--December 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.93 ft (7.600 m) above land-surface datum, December 12, 1960; lowest, 3.47 ft (1.058 m) above land-surface datum, July 21, 1977.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM , WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.00	6.25	5.97	8.35	6.95	7.55	6.70	6.75	4.12	4.85	4.20	4.55
2	6.62	6.40	6.00	8.25	6.92	7.33	6.35	6.45	3.75	5.30	4.30	4.50
3	6.55	6.30	5.65	7.80	6.92	7.35	6.05	6.30	3.70	5.75	4.20	4.50
4	6.70	6.20	5.50	7.60	6.40	7.40	6.50	5.55	3.60	6.15	4.00	4.65
5	6.85	6.20	5.60	6.90	6.37	7.45	6.60	5.25	3.55	6.40	3.80	5.00
6	6.49	6.10	5.60	7.00	6.47	7.30	6.40	5.25	3.85	6.40	4.00	5.20
7	6.40	6.05	5.85	7.20	6.95	7.40	6.10	5.25	4.20	6.20	4.00	5.10
8	6.39	6.10	6.00	7.10	7.25	7.40	6.15	5.20	4.10	6.15	4.20	5.00
9	6.30	6.30	5.95	6.95	6.95	7.05	6.05	5.30	3.90	6.30	4.10	5.10
10	6.34	6.30	5.75	6.80	6.70	7.05	6.15	5.40	3.90	6.45	3.80	5.05
11	6.48	6.12	5.65	6.90	6.95	7.25	6.05	5.15	3.60	6.50	3.80	5.00
12	6.47	6.03	5.60	7.15	5.47	7.20	6.15	4.70	3.60	6.60	3.90	5.20
13	6.14	5.99	6.00	6.24	6.35	7.40	5.75	4.65	4.15	6.20	3.90	5.40
14	6.00	5.95	6.15	5.90	6.47	7.50	5.55	4.65	4.20	5.35	4.00	5.10
15	5.85	6.12	6.25	5.85	6.95	7.50	5.50	4.65	3.80	4.75	4.30	4.90
16	5.95	6.45	6.25	5.80	6.95	7.70	5.40	4.50	3.60	4.50	4.30	4.90
17	6.05	6.57	6.08	5.60	6.65	7.40	5.38	4.50	3.55	4.20	4.20	4.90
18	6.05	6.30	5.95	5.70	6.80	7.45	5.60	4.45	3.45	4.40	4.00	4.80
19	6.15	5.80	5.80	6.25	6.75	7.50	6.00	---	3.40	4.45	4.10	5.10
20	6.10	5.90	5.90	6.10	6.85	7.25	5.75	4.15	3.50	4.15	4.10	5.20
21	5.70	5.85	6.20	6.35	7.27	7.25	5.50	4.05	3.80	3.95	4.20	4.90
22	5.70	5.85	6.00	7.38	7.52	7.40	5.50	4.10	3.80	4.30	4.30	5.10
23	6.00	6.05	6.15	6.45	7.30	7.15	5.48	4.15	3.55	4.25	4.40	5.00
24	6.00	6.10	6.95	6.55	6.95	6.65	5.53	4.40	3.55	4.35	4.30	5.10
25	6.20	5.90	8.83	6.80	7.00	6.60	5.52	4.35	3.50	4.45	4.20	5.05
26	6.20	6.20	10.20	6.70	7.00	6.65	5.45	4.35	3.50	4.50	4.10	5.00
27	6.00	6.43	10.70	6.70	6.80	6.80	5.40	4.25	3.75	4.25	4.10	5.20
28	6.35	6.35	11.00	6.70	7.15	7.00	5.60	4.10	4.00	4.05	4.20	4.90
29	6.00	6.15	10.30	6.45	---	7.10	6.25	4.05	4.10	3.75	---	4.80
30	6.10	6.08	9.50	6.53	---	7.20	6.75	4.10	4.45	3.50	4.40	4.70
31	6.00	---	9.10	6.85	---	6.65	---	4.25	---	3.55	4.50	---
MEAN	6.23	6.15	6.85	6.74	6.82	7.22	5.91		3.78	5.03	4.13	4.96

WTR YR 1981 MAX 11.00 MIN 3.40

311007081301702 Local number, 33H133.

LOCATION.--Lat 31°10'07", long 81°30'17", Hydrologic Unit 03070203, near the intersection of Newcastle and Oak Streets to the south of the cemetery in Brunswick.
Owner: U.S. Geological Survey, test well 6.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in. (10.1 cm), depth 790 ft (240.8 m), cased to 520 ft (158.5 m), open hole.

DATUM.--Altitude of land-surface is 7 ft (2.1 m) National Geodetic Vertical Datum of 1929.
Measuring point: Floor of recorder shelter, 3.0 ft (0.91 m) above land-surface datum.

REMARKS.--Well pumped monthly; water-quality samples collected at conclusion of pumping. Borehole geophysical survey conducted September 26, 1977. Water levels for period of missing recorder record, Dec. 25-29 were estimated.

PERIOD OF RECORD.--January 1963 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.07 ft (2.765 m) above land-surface datum, December 26, 1965; lowest, 21.87 ft (6.666 m) below land-surface datum, July 22, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.37	19.60	19.92	16.36	18.95	17.45	17.82	15.20	21.36	17.78	21.23	20.68
2	17.61	19.63	19.97	16.98	18.77	17.57	17.83	17.80	21.35	17.03	17.17	20.86
3	18.25	19.85	20.10	17.95	19.40	17.25	17.67	18.53	21.40	16.80	20.14	20.68
4	18.63	19.80	20.37	18.20	18.80	17.23	17.97	19.50	21.20	16.60	20.90	20.15
5	18.75	19.57	20.05	18.70	18.57	16.95	17.90	19.53	21.00	16.33	21.13	20.16
6	19.05	19.70	19.90	18.85	18.37	17.73	17.25	19.35	21.20	16.00	21.15	20.15
7	19.13	19.87	19.70	18.35	17.90	17.53	17.65	19.37	21.45	15.95	21.10	19.96
8	19.13	19.93	19.40	18.68	17.73	17.47	16.93	19.53	21.35	15.95	21.10	19.88
9	19.17	19.60	19.83	18.96	18.13	17.80	17.23	19.43	20.77	15.90	21.03	19.83
10	19.13	19.60	19.83	19.00	17.86	16.95	18.07	19.43	21.00	15.93	21.63	19.72
11	19.43	19.30	19.80	18.85	18.47	16.80	18.97	19.67	21.25	16.05	21.55	19.88
12	19.65	19.95	19.70	18.65	19.00	17.20	19.05	19.40	21.23	15.75	21.43	19.96
13	18.75	20.15	19.93	19.20	18.65	17.00	19.45	19.60	20.75	17.75	21.33	19.90
14	19.43	20.03	19.90	19.97	18.43	16.77	19.40	19.75	21.07	19.15	21.47	19.77
15	19.75	19.33	19.55	20.05	17.73	16.65	19.50	20.35	21.43	19.97	21.27	19.80
16	19.33	19.27	19.83	19.94	17.67	16.35	19.47	20.75	21.30	20.45	21.50	19.90
17	19.75	19.53	19.85	19.95	17.85	17.07	18.63	20.85	21.10	20.75	21.05	20.04
18	19.47	19.77	19.95	20.37	17.05	16.75	18.43	20.77	21.07	21.10	20.65	20.15
19	19.57	19.93	20.25	19.76	18.25	15.85	18.90	20.50	21.33	21.13	20.50	20.55
20	19.50	20.00	20.05	19.21	18.05	17.05	19.23	20.55	21.10	21.23	20.77	20.33
21	19.53	20.10	19.70	18.45	17.45	18.35	17.67	20.80	21.50	20.97	20.83	17.96
22	20.33	20.35	19.53	18.15	18.27	18.63	19.43	20.93	21.40	20.83	21.07	16.33
23	20.00	20.05	18.80	17.80	18.20	18.77	19.73	21.05	20.97	20.50	21.17	18.13
24	20.00	19.75	14.63	18.50	17.60	18.77	19.77	21.23	20.90	20.85	20.95	18.39
25	20.10	20.07	12.75	18.40	17.93	18.13	19.95	20.87	21.30	21.30	21.10	18.91
26	20.03	20.00	12.00	18.55	18.27	17.60	20.20	20.57	21.40	21.23	21.17	19.98
27	19.97	19.83	11.50	18.37	18.65	17.60	16.90	20.75	21.27	21.33	21.13	20.58
28	20.43	19.83	11.25	18.45	18.25	17.87	12.63	20.77	21.20	21.15	21.00	18.39
29	19.47	19.87	11.15	19.08	---	17.57	11.47	21.17	20.60	21.30	20.93	19.91
30	19.07	19.97	13.05	18.64	---	18.33	10.70	21.25	18.40	21.17	20.63	20.67
31	19.27	---	15.35	19.27	---	17.85	---	21.23	---	21.40	20.53	---
MEAN	19.32	19.81	17.99	18.76	18.22	17.45	17.86	20.02	21.09	19.02	20.92	19.72

WTR YR 1981 MEAN 19.18 HIGH 10.70 LOW 21.63

LAMAR COUNTY

330858084122901 Local number, 1221.
LOCATION.—Lat 33°08'58", long 84°12'29", Hydrologic Unit 03130005, north of Milner, Ga., at the gas storage center.
Owner: Dixie Pipeline Co.
AQUIFER.—Residuum.
WELL CHARACTERISTICS.—Bored observation well, diameter 24 in. (61.0 cm), depth 31 ft (9.4 m), cased to 31 ft (9.4 m).
DATUM.—Altitude of land-surface is 852 ft (259.7 m) National Geodetic Vertical Datum of 1929.
Measuring point: Floor of recorder shelter, 2.0 ft (0.61 m) above land-surface datum.
REMARKS.—None.
PERIOD OF RECORD.—January 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.—Highest water level, 5.37 ft (1.637 m) below land-surface datum, April 9, 1973; lowest, 14.60 ft (4.450 m) below land-surface datum, September 30, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.95	12.54	12.46	12.86	13.43	10.90	11.10	11.15	12.05	12.85	13.50	14.02
2	11.77	12.57	12.45	12.89	13.43	10.91	10.85	11.18	12.06	12.85	13.47	14.03
3	11.67	12.62	12.46	12.92	13.35	10.93	10.60	11.23	12.10	12.82	13.47	14.05
4	11.63	12.62	12.50	12.94	13.30	10.95	10.45	11.27	12.13	12.80	13.50	14.07
5	11.63	12.60	12.54	12.96	13.27	10.90	10.37	11.30	12.15	12.83	13.54	14.10
6	11.65	12.58	12.56	12.99	13.27	10.87	10.35	11.34	12.17	12.86	13.56	14.11
7	11.67	12.58	12.61	13.00	13.27	10.88	10.34	11.35	12.19	12.90	13.59	14.14
8	11.73	12.59	12.67	13.02	13.27	10.89	10.33	11.40	12.21	12.92	13.62	14.15
9	11.77	12.62	12.68	13.03	13.30	10.90	10.33	11.44	12.22	12.94	13.64	14.17
10	11.83	12.65	12.67	13.06	13.27	10.92	10.35	11.46	12.24	12.96	13.66	14.19
11	11.90	12.67	12.58	13.07	13.07	10.92	10.37	11.48	12.26	12.99	13.67	14.21
12	11.95	12.70	12.48	13.09	12.70	10.93	10.42	11.51	12.29	13.03	13.64	14.23
13	12.00	12.73	12.39	13.11	12.40	10.94	10.45	11.55	12.31	13.05	13.66	14.25
14	12.05	12.74	12.36	13.13	12.20	10.97	10.50	11.57	12.35	13.07	13.68	14.27
15	12.10	12.75	12.35	13.15	12.03	11.00	10.55	11.60	12.37	13.11	13.70	14.29
16	12.13	12.76	12.33	13.16	11.90	11.02	10.63	11.64	12.40	13.14	13.72	14.31
17	12.17	12.78	12.34	13.18	11.83	11.05	10.67	11.67	12.43	13.17	13.74	14.33
18	12.20	12.80	12.36	13.20	11.67	11.07	10.68	11.70	12.45	13.20	13.76	14.35
19	12.25	12.83	12.40	13.22	11.45	11.08	10.70	11.73	12.48	13.23	13.77	14.36
20	12.27	12.85	12.44	13.24	11.25	11.13	10.74	11.75	12.53	13.25	13.80	14.39
21	12.30	12.87	12.51	13.25	11.13	11.17	10.77	11.80	12.55	13.27	13.81	14.41
22	12.33	12.89	12.53	13.27	11.00	11.20	10.83	11.84	12.60	13.32	13.82	14.43
23	12.35	12.91	12.56	13.28	10.93	11.20	10.86	11.88	12.62	13.34	13.84	14.45
24	12.40	12.87	12.60	13.30	10.90	11.22	10.87	11.90	12.65	13.37	13.86	14.47
25	12.41	12.82	12.63	13.32	10.90	11.24	10.93	11.95	12.69	13.40	13.89	14.50
26	12.45	12.79	12.67	13.34	10.89	11.26	10.97	11.99	12.71	13.43	13.90	14.51
27	12.47	12.73	12.71	13.35	10.90	11.27	11.03	11.99	12.74	13.44	13.92	14.53
28	12.46	12.62	12.74	13.36	10.91	11.30	11.05	11.98	12.76	13.46	13.94	14.56
29	12.47	12.53	12.77	13.37	---	11.32	11.08	11.99	12.80	13.50	13.95	14.59
30	12.49	12.49	12.79	13.39	---	11.30	11.12	12.00	12.83	13.52	13.97	14.60
31	12.51	---	12.83	13.42	---	11.27	---	12.03	---	13.53	13.99	---
MEAN	12.10	12.70	12.55	13.16	12.19	11.06	10.68	11.63	12.41	13.15	13.73	14.30

WTR YR 1981 MEAN 12.47 HIGH 10.33 LOW 14.60

LAURENS COUNTY

322652083033001 Local number, 21T1.

LOCATION.--Lat 32°26'52", long 83°03'30", Hydrologic Unit 03070102, approximately 1.8 mi (2.8 km) northeast of Dexter, Ga. Owner: Danny Hogan.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 4 in. (10.1 cm), depth 123 ft (37.5 m), cased to 89 ft (27.1 m), open hole.

DATUM.--Altitude of land-surface datum is 252 ft (76.8 m), from barometric levels. Measuring point: Floor of recorder shelter, 2.57 ft (0.783 m) above land-surface datum.

REMARKS.--Borehole geophysical survey conducted November 1973.

PERIOD OF RECORD.--March 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.11 ft (7.349 m) below land-surface datum, February 14, 1972; lowest, 39.58 ft (12.064 m) below land-surface datum, November 12, 1968.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37.56	37.62	37.81	38.07	---	34.03	31.40	28.81	33.04	31.63	35.24	35.27
2	37.51	37.62	37.81	38.10	---	33.95	30.16	29.00	33.14	31.69	35.25	35.34
3	37.51	37.62	37.84	38.13	---	33.96	29.26	29.24	33.14	31.76	35.29	35.36
4	37.51	37.61	37.87	38.13	---	33.91	28.68	29.43	33.06	31.82	35.36	35.40
5	37.51	37.58	37.87	38.19	---	33.67	28.26	29.58	32.81	31.88	35.38	35.43
6	37.51	37.57	37.87	---	---	33.52	27.97	29.71	32.52	31.99	35.40	35.47
7	37.51	37.58	37.88	---	---	33.29	27.75	29.82	32.33	32.13	35.39	35.51
8	37.51	37.58	37.88	---	---	33.13	27.54	29.98	32.22	32.27	35.39	35.52
9	37.51	37.58	37.88	---	---	32.98	27.37	30.11	32.12	32.38	35.44	35.56
10	37.51	37.60	37.86	---	---	32.83	27.26	30.21	32.09	32.51	35.49	35.66
11	37.51	37.63	37.88	---	---	32.68	27.18	30.31	32.09	32.67	35.46	35.78
12	37.51	37.66	37.91	---	---	32.57	27.10	30.47	31.90	32.85	35.21	35.86
13	37.51	37.68	37.91	---	---	32.46	27.06	30.61	31.58	32.98	35.00	35.92
14	37.50	37.69	37.91	---	---	32.39	27.07	30.72	31.37	33.08	34.87	36.00
15	37.49	37.67	37.91	---	---	32.38	27.11	30.82	31.27	33.22	34.78	36.06
16	37.49	37.65	37.86	---	---	32.26	27.18	31.01	31.22	33.35	34.71	36.11
17	37.49	37.67	37.88	---	---	32.30	27.21	31.18	31.21	33.49	34.69	36.20
18	37.49	37.67	37.93	---	---	32.22	27.23	31.29	31.25	33.64	34.70	36.29
19	37.48	37.73	37.96	---	34.90	32.17	27.27	31.40	31.33	33.78	34.71	36.36
20	37.48	37.75	38.01	---	34.71	32.25	27.31	31.51	31.45	33.86	34.72	36.42
21	37.53	37.76	38.06	---	34.61	32.32	27.39	31.68	31.57	33.92	34.77	36.50
22	37.56	37.78	38.08	---	34.51	32.32	27.51	31.83	31.67	34.04	34.81	36.58
23	37.61	37.78	38.08	---	34.39	32.27	27.57	31.98	31.81	34.20	34.84	36.67
24	37.61	37.75	38.08	---	34.33	32.27	27.62	32.10	31.95	34.36	34.85	36.79
25	37.61	37.74	38.08	---	34.30	32.27	27.78	32.24	31.86	34.51	34.86	36.88
26	37.63	37.77	38.08	---	34.24	32.25	27.98	32.33	31.68	34.65	34.91	36.93
27	37.65	37.73	38.08	---	34.21	32.21	28.17	32.38	31.58	34.77	34.98	36.98
28	37.63	37.73	38.08	---	34.15	32.17	28.36	32.48	31.57	34.88	35.05	37.02
29	37.62	37.75	38.08	---	---	32.10	28.52	32.62	31.60	34.96	35.11	37.08
30	37.62	37.80	38.07	---	---	31.94	28.65	32.75	31.62	35.06	35.16	37.15
31	37.62	---	38.07	---	---	31.89	---	32.88	---	35.18	35.21	---
MEAN	37.54	37.68	37.95	---	---	32.68	27.90	30.98	31.94	33.34	35.07	36.14

WTR YR 1981 HIGH 27.06 LOW 38.19

LIBERTY COUNTY

314343081251901 Local number, 34M54.

LOCATION.--Lat 31°43'43", long 81°25'19", Hydrologic Unit 03060204, Riceboro, Ga., near entrance to Interstate Paper Co. Owner: U.S. Geological Survey, test well 2.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in. (10.1 cm), depth 802 ft (244.4 m), cased to 467 ft (142.3 m), open hole.

DATUM.--Altitude of land-surface is 19 ft (5.8 m) National Geodetic Vertical Datum of 1929. Measuring point: Floor of recorder shelter, 3.4 ft (1.04 m) above land-surface datum.

REMARKS.--Well pumped July 11, 1979; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 15, 1976.

PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.85 ft (0.259 m) below land-surface datum, February 5, 1967; lowest, 24.20 ft (7.377 m) below land-surface datum, August 26, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.40	21.72	21.30	21.95	22.10	21.85	22.00	19.95	22.50	22.80	23.75	23.05
2	21.45	21.77	20.62	21.90	21.75	21.60	21.88	20.45	22.45	22.85	23.70	23.58
3	21.40	21.77	20.40	21.95	22.00	21.35	22.00	20.90	22.40	22.92	23.85	23.70
4	21.42	21.78	20.15	22.00	22.10	21.75	21.97	21.20	22.35	23.05	23.90	23.75
5	21.48	21.83	19.95	22.15	22.15	21.55	21.90	21.30	22.35	22.95	23.88	23.75
6	21.25	21.95	19.65	21.90	22.00	21.45	22.00	21.25	22.35	23.10	23.78	23.80
7	21.42	21.90	20.00	21.75	21.85	21.80	22.05	21.30	22.28	23.20	23.65	23.85
8	21.38	21.82	21.00	22.00	21.70	22.00	22.05	21.48	22.20	23.30	23.63	23.85
9	21.40	21.95	21.45	22.05	21.35	22.15	21.95	21.50	22.20	23.35	23.75	23.80
10	21.65	22.00	21.65	22.05	21.50	22.15	22.05	21.50	22.35	23.35	23.93	23.80
11	21.55	21.70	22.00	22.05	21.45	22.05	22.10	21.45	22.35	23.40	24.00	24.05
12	21.75	21.90	22.15	22.05	21.70	22.00	22.05	21.50	22.45	23.40	24.00	23.90
13	21.85	22.07	22.12	22.00	22.05	21.95	22.00	21.65	22.50	23.35	23.80	23.80
14	21.75	22.10	22.20	21.95	21.95	21.85	22.10	21.70	22.48	23.30	23.90	23.85
15	21.72	21.92	22.10	22.00	21.85	21.90	22.10	21.62	22.60	23.35	23.85	23.95
16	21.75	21.85	22.00	21.80	21.75	21.70	22.00	21.65	22.60	23.20	23.70	24.00
17	21.70	21.87	22.05	22.05	21.85	21.70	21.85	21.70	22.65	23.50	23.70	23.95
18	21.65	21.85	22.15	22.10	21.75	21.80	21.70	21.70	22.70	23.60	23.88	23.95
19	21.55	21.98	22.25	22.05	21.60	21.55	21.60	21.80	22.88	23.85	23.80	23.90
20	21.55	22.00	22.25	22.00	21.60	21.45	21.60	21.85	22.85	23.85	23.85	23.75
21	21.60	22.00	22.30	21.90	21.70	21.65	21.60	22.05	22.85	23.80	24.00	23.70
22	21.70	22.05	22.10	21.95	21.80	21.80	21.60	22.15	22.80	23.40	23.98	23.30
23	21.78	21.95	21.45	21.70	21.90	21.65	21.55	22.25	22.90	22.90	24.08	22.65
24	21.75	21.90	20.80	21.80	22.10	21.92	21.40	22.35	23.00	22.70	24.10	22.30
25	21.65	21.95	20.75	21.90	22.20	22.05	21.50	22.35	22.85	23.10	24.10	22.00
26	21.75	21.85	20.65	21.85	22.10	22.15	21.58	22.40	22.85	23.50	24.20	21.85
27	21.80	21.72	21.00	21.85	21.90	22.25	21.20	22.30	22.88	23.60	24.15	21.75
28	21.75	21.78	21.60	22.00	21.95	22.25	20.60	22.25	23.05	23.70	24.15	22.00
29	21.75	21.90	21.70	22.15	---	22.20	20.20	22.25	23.08	23.70	24.00	22.75
30	21.72	21.95	21.85	22.18	---	22.00	19.73	22.40	22.90	23.68	24.00	22.95
31	21.78	---	21.93	22.30	---	22.10	---	22.40	---	23.65	23.45	---
MEAN	21.62	21.89	21.41	21.98	21.85	21.86	21.66	21.70	22.62	23.34	23.89	23.38

WTR YR 1981 MEAN 22.27 HIGH 19.65 LOW 24.20

LIBERTY COUNTY

315214081235301 Local number, 34N89.

LOCATION.--Lat 31°52'14", long 81°23'53", Hydrologic Unit 03060204, north of Midway, Ga., near intersection of Georgia Highway 196 and U.S. Highway 17.

Owner: U.S. Geological Survey, test well 1.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in. (10.1 cm), depth 789 ft (240.5 m), cased to 410 ft (125.0 m), open hole.

DATUM.--Altitude of land-surface is 17 ft (5.1 m) National Geodetic Vertical Datum of 1929.

Measuring point: Top of 4 in. (10.1 cm) casing, 1.33 ft (0.405 m) above land-surface datum.

REMARKS.--Well pumped July 11, 1979; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 15, 1976.

PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.34 ft (0.713 m) below land-surface datum, March 6, 1967; lowest, 22.28 ft (6.791 m) below land-surface datum, August 10, 11, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.80	20.15	20.20	19.75	19.85	19.60	19.55	19.25	20.50	21.25	22.18	22.12
2	19.85	20.20	20.10	19.90	19.70	19.55	19.55	19.30	20.60	21.35	22.10	22.12
3	19.83	20.25	20.20	19.88	19.97	19.70	19.55	19.40	20.60	21.30	22.10	22.15
4	19.85	20.10	20.20	19.90	19.95	19.55	19.55	19.40	20.60	21.30	22.12	22.15
5	19.90	20.05	20.12	20.00	19.97	19.30	19.50	19.35	20.55	21.30	22.15	22.18
6	20.05	20.12	20.08	19.90	19.90	19.50	19.60	19.30	20.50	21.35	22.10	22.20
7	20.05	20.17	20.05	19.65	19.70	19.60	19.65	19.25	20.50	21.45	22.05	22.18
8	19.95	20.20	19.97	19.75	19.65	19.70	19.65	19.38	20.50	21.45	22.10	22.10
9	19.92	20.15	19.85	19.80	19.77	19.70	19.60	19.40	20.50	21.45	22.18	22.10
10	19.95	20.17	19.82	19.85	19.72	19.70	19.65	19.40	20.55	21.45	22.28	22.18
11	19.92	20.17	19.90	19.85	19.75	19.60	19.60	19.40	20.60	21.50	22.28	22.25
12	20.00	20.12	19.95	19.90	20.05	19.65	19.55	19.50	20.70	21.55	22.25	22.25
13	20.10	20.15	19.92	19.85	20.05	19.55	19.55	19.60	20.75	21.60	22.25	22.20
14	20.18	20.17	19.97	19.75	20.00	19.55	19.65	19.55	20.75	21.55	22.25	22.18
15	20.20	20.15	19.90	19.75	19.93	19.55	19.70	19.55	20.75	21.60	22.20	22.15
16	20.22	20.15	19.75	19.82	19.85	19.40	19.80	19.68	20.70	21.70	22.12	22.10
17	20.18	20.09	19.90	19.95	19.75	19.50	19.70	19.82	20.70	21.80	22.10	22.12
18	20.15	20.10	20.05	19.90	19.70	19.25	19.60	19.90	20.75	21.90	22.15	22.14
19	20.08	20.25	20.10	19.80	19.55	19.25	19.55	19.90	20.80	22.00	22.05	22.15
20	20.10	20.25	20.20	19.72	19.45	19.40	19.45	19.90	20.80	22.00	22.10	22.15
21	20.20	20.25	20.30	19.75	19.50	19.50	19.50	20.00	20.88	21.95	22.15	22.05
22	20.20	20.35	20.25	19.80	19.55	19.35	19.50	20.10	20.90	21.95	22.17	22.00
23	20.23	20.20	20.10	19.70	19.55	19.45	19.35	20.17	20.93	22.05	22.20	22.00
24	20.15	20.07	20.00	19.75	19.60	19.50	19.20	20.22	21.05	22.08	22.15	22.05
25	20.10	20.15	20.07	19.85	19.70	19.60	19.32	20.28	21.10	22.10	22.15	21.97
26	20.23	20.15	20.10	19.75	19.70	19.70	19.43	20.30	21.10	22.10	22.18	21.90
27	20.20	20.00	19.95	19.70	19.75	19.70	19.45	20.25	21.15	22.12	22.18	21.80
28	20.10	20.05	19.80	19.75	19.75	19.75	19.45	20.20	21.28	22.12	22.20	21.72
29	20.15	20.10	19.70	19.90	---	19.70	19.40	20.30	21.35	22.08	22.20	21.70
30	20.15	20.20	19.70	19.92	---	19.50	19.32	20.35	21.30	22.05	22.15	21.70
31	20.18	---	19.75	20.00	---	19.60	---	20.40	---	22.15	22.15	---
MEAN	20.07	20.16	20.00	19.82	19.76	19.55	19.53	19.77	20.79	21.73	22.16	22.07

WTR YR 1981 MEAN 20.45 HIGH 19.20 LOW 22.28

LONG COUNTY

313844081361401 Local number, 33M4.

LOCATION.—Lat 31°38'44", long 81°36'14", Hydrologic Unit 03070106, 9 mi (14.4 km) southeast of Ludowici, at Hope Cemetery. Owner: U.S. Geological Survey, test well 3.

AQUIFER.—Principal artesian aquifer.

WELL CHARACTERISTICS.—Drilled observation well, diameter 4-3 in (10.1-7.6 cm), depth 872 ft (265.8 m), cased to 538 ft (164.0 m), open hole.

DATUM.—Altitude of land-surface is 61.2 ft (18.65 m) National Geodetic Vertical Datum of 1929. Measuring point: Top of recorder shelter, 3.5 ft (1.07 m) above land-surface datum.

REMARKS.—Well pumped and sounded June 17, 1976, to depth of 861 ft (262.4 m); water-quality sample collected. Borehole geophysical survey conducted July 28, 1976.

PERIOD OF RECORD.—January 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 34.04 ft (10.375 m) below land-surface datum, January 14, 1968; lowest, 53.22 ft (16.221 m) below land-surface datum, July 27, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.77	50.85	51.20	50.07	50.83	50.80	51.03	50.33	51.60	52.70	53.15	53.04
2	49.87	50.90	51.15	50.22	50.75	50.77	51.03	50.43	51.65	52.75	53.07	53.06
3	49.95	50.95	51.25	50.22	50.97	50.83	51.07	50.57	51.70	52.77	53.05	53.09
4	50.03	50.80	51.33	50.28	50.97	50.80	51.10	50.60	51.70	52.80	53.10	53.10
5	50.15	50.75	51.25	50.48	51.03	50.60	51.05	50.57	51.75	52.80	53.13	53.12
6	50.27	50.85	51.25	50.38	50.97	50.73	51.10	50.55	51.73	52.80	53.07	53.14
7	50.27	50.83	51.25	50.20	50.83	50.90	51.17	50.50	51.70	52.85	52.97	53.11
8	50.25	50.83	51.20	50.35	50.73	51.03	51.05	50.63	51.75	52.90	53.00	53.01
9	50.25	50.85	51.10	50.42	50.90	51.13	50.87	50.70	51.75	52.90	53.07	52.88
10	50.27	50.90	51.05	50.50	50.87	51.13	50.67	50.74	51.80	52.90	53.20	52.79
11	50.25	50.97	51.15	50.54	50.93	51.07	50.50	50.70	51.87	52.90	53.17	52.67
12	50.37	51.07	51.20	50.56	51.23	51.07	50.25	50.80	52.00	52.93	53.15	52.48
13	50.50	51.13	51.15	50.55	51.33	51.03	50.00	50.90	52.05	52.93	53.17	52.24
14	50.57	51.07	51.17	50.47	51.23	51.00	49.87	50.90	52.10	52.85	53.17	52.02
15	50.63	50.95	51.10	50.47	51.15	51.03	49.83	50.87	52.13	52.85	53.12	51.83
16	50.65	51.00	50.93	50.55	51.07	50.83	49.90	50.97	52.10	52.87	53.05	51.68
17	50.63	51.00	51.10	50.67	51.00	50.90	49.80	51.10	52.10	52.87	53.00	51.63
18	50.60	51.03	51.25	50.68	50.90	50.75	49.75	51.13	52.13	52.93	53.03	51.64
19	50.53	51.17	51.27	50.58	50.80	50.67	49.73	51.10	52.17	53.00	52.97	51.68
20	50.60	51.23	51.43	50.52	50.70	50.85	49.70	51.05	52.20	53.00	53.00	51.72
21	50.70	51.23	51.55	50.55	50.73	51.00	49.80	51.10	52.25	52.95	53.07	51.75
22	50.77	51.30	51.50	50.63	50.75	50.97	49.97	51.25	52.25	52.94	53.13	51.80
23	50.77	51.25	51.37	50.54	50.75	50.85	49.95	51.33	52.27	53.00	53.17	51.85
24	50.75	51.07	51.20	50.55	50.83	51.00	49.87	51.35	52.35	53.07	53.17	52.00
25	50.70	51.17	51.17	50.63	50.91	51.13	49.97	51.40	52.45	53.15	53.13	52.14
26	50.85	51.15	51.03	50.64	50.90	51.20	50.15	51.40	52.45	53.17	53.14	52.16
27	50.85	51.03	50.70	50.55	50.95	51.25	50.27	51.32	52.53	53.22	53.12	52.16
28	50.76	51.03	50.40	50.63	50.93	51.27	50.34	51.30	52.67	53.20	53.15	52.14
29	50.80	51.13	50.12	50.77	---	51.27	50.35	51.37	52.77	53.10	53.12	52.15
30	50.83	51.23	50.04	50.85	---	51.05	50.33	51.45	52.73	53.07	53.07	52.17
31	50.87	---	50.05	50.97	---	51.07	---	51.50	---	53.15	53.06	---
MEAN	50.49	51.02	51.06	50.52	50.93	50.97	50.35	50.96	52.09	52.95	53.10	52.34

WTR YR 1981 MEAN 51.40 HIGH 49.70 LOW 53.22

LOWNDES COUNTY

304949083165301 Local number, 19E9.

LOCATION.--Lat 30°49'49", long 83°16'53", Hydrologic Unit 03110202, N. Oak Street, one block north of intersection with U.S. Highway 84, Valdosta, Ga.
Owner: City of Valdosta.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused municipal supply well, diameter 20 in. (50.8 cm), depth 342 ft (104.2 m), cased to 200 ft (61.0 m) open hole.

DATUM.--Altitude of land-surface datum is 217 ft (66 m), from topographic map.
Measuring point: Top of casing, 1.7 ft (0.56 m) above land-surface datum.

REMARKS.--Well pumped July 18, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted April 11, 1963.

PERIOD OF RECORD.--February 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.69 ft (34.350 m) below land-surface datum, March 9, 1964; lowest, 146.60 ft (44.684 m) below land-surface datum, July 18, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137.11	135.48	136.08	134.27	133.59	130.01	128.29	131.62	140.07	141.06	138.99	138.80
2	136.03	135.06	136.52	135.07	133.33	130.62	128.06	132.75	140.62	140.46	137.84	138.46
3	135.64	134.90	136.60	135.18	133.78	130.86	127.61	133.27	139.77	140.54	137.62	138.05
4	135.84	134.71	136.94	135.27	133.86	130.51	127.55	133.49	140.18	141.00	137.64	138.27
5	136.60	135.95	137.30	135.87	133.83	130.36	126.91	134.23	139.67	141.06	---	138.50
6	137.03	136.03	137.12	135.93	132.90	129.90	126.86	134.70	139.22	140.92	---	138.58
7	137.40	136.00	137.03	136.06	132.82	129.46	127.00	133.28	137.79	142.65	---	138.63
8	138.27	136.33	137.56	136.34	132.48	129.24	127.21	131.99	135.90	143.37	---	138.87
9	138.63	136.34	137.79	135.07	132.61	129.59	127.74	131.46	135.35	141.59	---	139.61
10	139.01	136.76	137.53	134.35	132.57	129.75	127.50	131.02	135.65	141.23	---	139.79
11	139.54	137.62	137.65	134.57	132.81	129.86	127.91	131.20	135.75	141.64	---	140.08
12	139.42	138.30	138.07	135.95	132.58	129.64	127.96	131.77	135.48	141.62	139.73	140.53
13	139.58	138.67	137.55	137.02	131.82	129.02	128.27	132.92	134.85	141.84	139.59	140.31
14	140.21	138.93	137.39	135.53	131.53	129.28	128.72	132.75	134.48	142.39	140.00	140.78
15	140.96	138.58	137.77	134.98	131.24	129.25	129.57	133.61	134.13	144.05	139.84	140.81
16	141.21	138.34	137.94	134.91	131.31	129.12	128.81	134.07	134.27	144.11	139.63	141.47
17	142.23	138.80	137.90	135.64	131.00	129.26	129.07	134.46	134.80	144.83	140.51	141.53
18	142.47	138.86	137.84	135.48	131.67	129.16	129.54	135.04	135.16	146.60	140.93	141.37
19	141.04	139.02	138.20	135.49	131.29	129.11	129.43	135.43	134.45	144.68	141.42	141.34
20	140.75	139.47	137.65	135.23	130.76	128.78	129.21	135.87	135.34	144.88	141.79	141.51
21	140.66	139.41	137.38	135.56	130.63	129.21	129.24	136.42	136.15	143.18	142.07	142.38
22	140.83	139.72	137.97	135.03	130.30	128.58	129.32	137.36	136.31	142.18	142.08	142.21
23	140.73	139.26	137.84	134.82	130.33	128.47	128.73	138.14	137.09	139.95	141.92	142.78
24	139.63	139.50	136.65	134.84	130.32	128.33	128.57	138.49	138.40	140.20	141.43	142.83
25	138.03	138.68	135.04	134.91	130.78	129.06	128.84	138.25	138.64	140.99	140.78	142.95
26	137.52	137.28	134.60	134.92	130.35	129.41	128.78	137.98	139.24	141.04	140.76	143.20
27	137.93	136.02	134.42	135.21	130.37	129.07	129.35	138.15	139.01	141.71	141.59	143.17
28	138.18	135.78	134.06	135.90	130.40	129.11	129.86	138.13	138.85	142.58	141.36	143.39
29	137.50	135.48	134.66	135.00	---	128.74	131.17	138.54	139.26	143.06	140.47	144.14
30	136.22	135.34	134.86	134.17	---	128.19	130.75	140.00	140.02	140.71	139.49	144.43
31	135.56	---	134.63	133.89	---	128.05	---	140.03	---	139.39	139.30	---
MEAN	138.77	137.35	136.79	135.24	131.83	129.32	128.59	135.05	137.20	142.11	---	140.96

WTR YR 1981 HIGH 126.86 LOW 146.60

MCINTOSH COUNTY

313826081152601 Local number, 35M13.

LOCATION.--Lat 31°38'26", long 81°15'26", Hydrologic Unit 03060204, 8.5 mi (13.6 km) east of U.S. Highway 17 at Harris Neck Wildlife Refuge.

Owner: U.S. Department of the Interior, Fish and Wildlife Service.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 10 in. (25.4 cm), depth 553 ft (162.4 m), cased to 376 ft (114.6 m), open hole.

DATUM.--Altitude of land-surface is 16.3 ft (4.97 m) National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.2 ft (0.98 m) above land-surface datum.

REMARKS.--Well pumped August 3, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 16, 1976.

PERIOD OF RECORD.--September 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.35 ft (1.326 m) below land-surface datum, October 4, 1966; lowest, 20.22 ft (6.163 m) below land-surface datum, September 23, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.13	18.60	18.95	18.72	18.55	18.60	18.56	18.15	18.58	19.15	19.85	20.03
2	18.20	18.65	18.85	18.88	18.58	18.45	18.58	18.05	18.65	19.20	19.80	20.05
3	18.25	18.60	18.98	18.83	18.90	18.50	18.48	18.10	18.68	19.20	19.82	20.10
4	18.32	18.53	18.93	18.77	18.88	18.40	18.40	18.13	18.75	19.25	19.93	20.07
5	18.35	18.53	18.85	18.82	18.83	18.23	18.40	17.97	18.80	19.30	20.10	20.08
6	18.38	18.58	18.85	18.72	18.72	18.38	18.52	17.90	18.80	19.35	20.10	20.10
7	18.32	18.62	18.85	18.55	18.53	18.40	18.55	17.87	18.85	19.45	19.98	20.07
8	18.28	18.65	18.80	18.63	18.45	18.55	18.50	17.90	18.87	19.40	19.95	20.00
9	18.32	18.65	18.73	18.55	18.65	18.55	18.53	18.00	18.90	19.40	20.10	20.00
10	18.37	18.72	18.70	18.72	18.57	18.55	18.60	18.12	19.00	19.40	20.13	19.98
11	18.35	18.65	18.70	18.72	18.65	18.55	18.60	18.23	19.05	19.47	20.05	20.10
12	18.37	18.63	18.75	18.78	19.05	18.62	18.60	18.47	18.98	19.50	20.05	20.08
13	18.42	18.65	18.78	18.80	18.85	18.53	18.60	18.47	19.05	19.40	20.05	20.05
14	18.50	18.62	18.75	18.82	18.72	18.57	18.58	18.25	19.04	19.45	19.98	20.05
15	18.50	18.47	18.60	18.80	18.68	18.60	18.63	18.25	18.98	19.40	19.90	20.10
16	18.48	18.48	18.49	18.77	18.60	18.38	18.63	18.40	18.90	19.40	19.90	20.15
17	18.55	18.35	18.55	18.90	18.69	18.55	18.62	18.45	18.90	19.54	19.87	20.18
18	18.45	18.60	18.65	18.90	18.65	18.35	18.62	18.40	19.00	19.63	19.78	20.12
19	18.45	18.73	18.70	18.70	18.55	18.27	18.46	18.40	19.07	19.65	19.80	20.18
20	18.42	18.65	18.72	18.68	18.45	18.40	18.35	18.43	19.05	19.72	20.00	20.15
21	18.40	18.55	18.65	18.65	18.50	18.50	18.25	18.40	19.12	19.75	19.82	20.20
22	18.42	18.70	18.70	18.60	18.48	18.33	18.27	18.45	19.15	19.80	19.90	20.20
23	18.35	18.65	18.65	18.60	18.45	18.31	18.35	18.55	19.20	19.85	19.95	20.22
24	18.17	18.58	18.72	18.55	18.57	18.45	18.30	18.60	19.20	19.85	19.98	---
25	18.33	18.73	18.88	18.60	18.70	18.55	18.40	18.60	19.30	19.93	20.00	---
26	18.60	18.60	18.75	18.58	18.70	18.65	18.43	18.60	19.25	19.95	19.93	---
27	18.60	18.45	18.62	18.52	18.68	18.72	18.47	18.52	19.25	19.95	19.90	---
28	18.53	18.75	18.53	18.60	18.70	18.77	18.50	18.55	19.15	19.90	20.02	---
29	18.63	18.95	18.55	18.77	---	18.70	18.43	18.58	19.20	19.83	20.00	20.15
30	18.55	19.03	18.55	18.78	---	18.52	18.28	18.55	19.15	19.80	19.90	20.15
31	18.58	---	18.55	18.68	---	18.65	---	18.55	---	19.80	19.98	---
MEAN	18.41	18.63	18.72	18.71	18.65	18.50	18.48	18.32	19.00	19.57	19.95	---

WTR YR 1981 HIGH 17.87 LOW 20.22

MILLER COUNTY

310651084404501 Local number, 8G1.

LOCATION.--Lat 31°06'51", long 84°40'45", Hydrologic Unit 03130010, 1 mi (1.6 km) northeast of Boykin, Ga. Owner: Jack Fleet.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused irrigation well, diameter 12 in. (30.5 cm), depth 255 ft (77.7 m), cased to 130 ft (39.6 m), open hole.

DATUM.--Altitude of land-surface datum is 150 ft (46 m), from topographic map. Measuring point: Top front edge of recorder shelter, 3.0 ft (0.91 m) above land-surface datum.

REMARKS.--None.

PERIOD OF RECORD.--February 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.20 ft (4.328 m) below land-surface datum, March 17, 1978; lowest, 43.88 ft (13.375 m) below land-surface datum, July 17, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38.82	39.26	40.03	40.64	41.40	38.58	35.57	38.11	42.52	43.45	36.80	39.73
2	38.72	39.28	40.04	40.66	41.42	38.50	35.07	38.00	42.55	43.47	30.24	39.82
3	38.66	39.30	40.07	40.69	41.45	38.45	34.34	38.12	42.55	43.45	28.23	39.90
4	38.60	39.30	40.08	40.70	41.47	38.40	33.74	38.73	42.83	43.41	28.70	39.95
5	38.60	39.30	40.10	40.73	41.50	38.32	33.38	39.45	42.94	43.38	29.60	40.02
6	38.62	39.22	40.12	40.75	41.50	38.28	33.12	39.73	42.98	43.34	30.48	40.08
7	38.60	39.42	40.14	40.80	41.50	38.22	32.90	39.40	43.08	43.30	31.35	40.11
8	38.60	39.52	40.15	40.83	41.52	38.17	32.85	39.04	43.18	43.30	32.30	40.16
9	38.62	39.47	40.17	40.86	41.52	38.10	32.85	38.85	43.12	43.60	33.40	40.22
10	38.65	39.47	40.20	40.88	41.50	38.04	33.34	38.73	42.97	43.68	34.50	40.28
11	38.68	39.57	40.20	40.92	41.48	37.97	33.60	39.14	42.80	43.68	35.04	40.35
12	38.72	39.72	40.23	40.95	41.32	37.92	33.60	39.80	42.67	43.65	35.02	40.40
13	38.77	39.72	40.25	40.97	41.04	37.85	34.08	39.94	42.55	43.61	35.70	40.43
14	38.85	39.72	40.28	40.99	40.74	37.77	34.38	40.14	42.45	43.62	36.10	40.55
15	39.05	39.77	40.28	41.02	40.45	37.70	34.60	40.44	42.52	43.77	36.56	40.65
16	39.26	39.73	40.30	41.05	40.22	37.63	35.22	40.55	42.80	43.85	37.04	40.67
17	39.25	39.73	40.32	41.07	40.02	37.55	35.68	40.87	42.98	43.88	37.36	40.70
18	39.18	39.76	40.35	41.10	39.84	37.56	36.45	41.10	43.00	43.83	37.61	40.75
19	39.12	39.78	40.38	41.12	39.65	37.68	36.20	40.98	43.18	43.80	38.34	40.78
20	39.12	39.78	40.40	41.14	39.45	37.68	36.50	40.95	43.34	43.70	39.08	40.80
21	39.13	39.86	40.42	41.17	39.27	37.65	36.82	41.20	43.40	43.35	39.14	40.83
22	39.17	40.02	40.45	41.19	39.08	37.48	36.33	41.53	43.37	43.10	39.07	40.87
23	39.20	40.02	40.48	41.21	38.93	37.27	36.25	41.75	43.40	42.90	39.08	40.92
24	39.20	39.95	40.50	41.23	38.83	37.10	36.24	41.85	43.48	42.78	39.10	40.98
25	39.22	39.95	40.52	41.27	38.79	36.96	36.50	41.96	43.52	42.70	39.13	41.03
26	39.24	39.94	40.53	41.29	38.74	36.72	36.80	42.20	43.52	42.24	39.18	41.08
27	39.24	39.94	40.55	41.31	38.68	36.60	37.37	42.28	43.58	42.16	39.26	41.16
28	39.25	39.96	40.58	41.35	38.62	36.40	37.84	42.15	43.55	42.03	39.37	41.45
29	39.28	39.98	40.57	41.37	---	36.20	38.22	42.02	43.48	41.90	39.46	41.70
30	39.26	40.00	40.60	41.38	---	35.80	38.40	42.16	43.44	41.85	39.54	41.75
31	39.26	---	40.63	41.40	---	35.78	---	42.42	---	41.72	39.63	---
MEAN	38.97	39.68	40.32	41.03	40.35	37.56	35.27	40.44	43.06	43.18	35.98	40.60

WTR YR 1981 MEAN 39.70 HIGH 28.23 LOW 43.88

RANDOLPH COUNTY

314602084473701 Local number, 7N1.

LOCATION.--Lat 31°46'02", long 84°47'37", Hydrologic Unit 03110204, south of intersection of College and Andrew Streets, near electric substation.

Owner: City of Cuthbert.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled unused municipal well, diameter 8 in. (20.3 cm), depth 372 ft (113.4 m), casing depth unknown.

DATUM.--Altitude of land-surface datum is 460 ft (140 m), from topographic map.

Measuring point: Floor of recorder shelter, 3.30 ft (1.006 m) above land-surface datum.

REMARKS.--Well pumped and sounded June 22, 1978, to a depth of 372 ft (113.4 m); water-quality sample collected at conclusion of pumping. Well near city wells. Water levels for period of missing recorder record, July 31 to Aug. 12 were estimated.

PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 132.0 ft (40.23 m) below land-surface datum, December 10, 1967; lowest, 153.94 ft (46.921 m) below land-surface datum, September 8, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	148.95	147.46	146.07	144.87	144.17	144.15	143.91	144.71	149.99	152.68	152.65	151.46
2	149.74	146.91	146.14	145.62	145.09	144.67	144.36	145.18	148.21	151.14	152.62	151.44
3	149.87	148.03	146.29	145.34	146.22	145.27	144.18	146.04	148.71	150.68	153.00	151.79
4	148.91	147.29	147.52	145.01	146.11	144.43	144.49	146.82	148.80	150.91	152.63	152.27
5	148.89	147.51	147.05	146.74	145.84	144.19	144.33	146.55	148.53	150.03	152.60	151.96
6	148.89	146.72	145.77	146.13	145.65	144.43	144.31	147.01	148.38	150.20	152.80	151.84
7	149.81	147.10	145.49	145.93	145.22	144.31	145.06	147.49	147.76	150.15	153.15	152.80
8	149.08	148.79	145.99	144.81	144.35	143.91	144.89	146.27	148.12	150.31	152.95	152.83
9	148.71	148.50	145.45	145.64	145.34	144.28	146.43	146.60	148.38	150.50	153.05	152.98
10	148.84	147.41	145.58	145.69	144.65	144.03	145.41	146.42	148.75	150.09	153.15	152.96
11	148.58	147.16	145.23	145.34	145.21	144.19	144.88	146.99	148.61	150.02	153.10	153.29
12	148.66	146.92	145.69	146.91	146.99	144.15	144.24	147.26	147.97	149.51	153.00	153.29
13	148.83	147.11	145.18	148.15	146.75	144.32	145.36	148.10	148.15	149.99	152.92	152.78
14	148.46	145.12	145.11	147.52	145.36	143.94	146.53	148.53	148.08	150.17	152.52	153.55
15	148.55	144.83	144.23	146.62	144.92	143.31	145.91	148.63	148.50	150.39	151.99	153.58
16	148.71	144.68	144.94	146.82	144.90	143.70	144.96	148.42	148.91	151.31	151.76	153.07
17	148.68	145.89	145.63	146.60	144.46	143.78	144.71	148.21	149.88	151.68	152.20	152.51
18	148.66	146.45	145.08	146.36	144.89	143.58	145.42	149.57	151.08	152.80	152.73	152.15
19	149.47	147.01	145.04	146.98	144.81	143.66	144.29	149.86	151.31	151.28	152.85	152.62
20	150.26	147.15	144.99	145.84	144.62	143.77	144.62	148.08	152.19	151.03	151.97	152.10
21	148.89	146.73	144.80	145.98	145.69	143.38	143.81	149.01	151.63	151.18	152.07	153.19
22	148.47	146.17	145.20	145.34	145.23	143.19	144.01	149.29	151.96	151.47	152.11	153.29
23	147.58	145.70	145.55	145.11	145.12	143.69	144.12	149.59	153.25	151.94	151.88	153.45
24	147.50	146.21	145.76	145.20	144.42	143.89	144.58	149.57	152.07	152.02	152.05	153.26
25	147.14	146.12	146.82	144.88	144.37	143.95	144.27	151.19	151.79	152.14	151.61	153.00
26	146.80	146.09	146.43	144.97	144.17	144.76	143.83	150.81	151.77	152.99	152.44	153.28
27	147.33	145.31	145.02	145.03	144.64	144.34	144.86	149.07	151.99	152.54	151.84	152.77
28	147.39	145.78	144.66	144.93	145.29	144.16	145.43	149.15	151.91	153.07	151.44	153.84
29	147.34	145.81	146.13	144.84	---	144.05	145.95	149.95	152.65	153.29	151.35	153.87
30	147.08	145.67	145.13	144.98	---	143.99	145.26	149.82	152.94	153.13	150.79	153.60
31	147.94	---	145.27	144.22	---	144.33	---	150.00	---	153.00	151.31	---
MEAN	148.52	146.59	145.59	145.75	145.16	144.06	144.81	148.20	150.08	151.34	152.34	152.83

WTR YR 1981 MEAN 147.95 HIGH 143.19 LOW 153.87

SPALDING COUNTY

331507084171801 Local number, 11AA1.
LOCATION.--Lat 33°15'07", long 84°17'18", Hydrologic Unit 03070103, University of Georgia Experiment Station, Experiment, Ga.
Owner: University of Georgia.
AQUIFER.--Residuum.
WELL CHARACTERISTICS.--Dug unused water-table well, size 4 x 4 ft (1.2 x 1.2 m), depth 30 ft (9.1 m), open hole.
DATUM.--Altitude of land-surface datum is 960 ft (293 m), from topographic map.
Measuring point: Hole in floor of recorder shelter, 3.1 ft (0.94 m) above land-surface datum.
REMARKS.--Water levels for period of missing recorder record, Sept. 5-29 were estimated.
PERIOD OF RECORD.--October 1943 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.26 ft (2.518 m) below land-surface datum, March 19, 1948; lowest, 21.08 ft (6.425 m) below land-surface datum, December 8, 1943.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.71	18.41	18.89	19.10	19.59	16.75	16.55	16.59	17.72	18.94	20.20	20.08
2	17.65	18.45	18.90	19.13	19.61	16.73	16.50	16.66	17.74	19.01	20.19	20.07
3	17.60	18.47	18.94	19.13	19.64	16.75	16.49	16.72	17.76	19.05	20.19	20.05
4	17.61	18.46	18.94	19.16	19.62	16.67	16.48	16.75	17.81	19.09	20.21	20.05
5	17.64	18.47	18.94	19.19	19.63	16.62	16.35	16.76	17.86	19.12	20.22	20.05
6	17.69	18.50	18.97	19.17	19.61	16.65	16.27	16.79	17.89	19.18	20.23	20.09
7	17.68	18.51	18.98	19.17	19.59	16.63	16.22	16.85	17.95	19.22	20.24	20.10
8	17.68	18.53	18.98	19.22	19.59	16.61	16.18	16.93	17.95	19.26	20.26	20.12
9	17.71	18.56	18.98	19.23	19.65	16.58	16.17	16.97	17.96	19.29	20.28	20.13
10	17.75	18.59	18.98	19.27	19.56	16.55	16.16	16.97	17.99	19.33	20.30	20.14
11	17.78	18.61	18.95	19.28	19.12	16.52	16.15	17.02	18.03	19.38	20.29	20.15
12	17.84	18.63	18.91	19.29	18.78	16.52	16.13	17.09	18.07	19.43	20.26	20.20
13	17.89	18.66	18.87	19.28	18.43	16.49	16.15	17.13	18.10	19.47	20.25	20.23
14	17.92	18.66	18.86	19.29	18.16	16.51	16.17	17.14	18.13	19.51	20.24	20.26
15	17.94	18.66	18.81	19.33	17.97	16.50	16.22	17.19	18.16	19.56	20.23	20.28
16	17.98	18.70	18.77	19.36	17.83	16.45	16.23	17.26	18.19	19.60	20.21	20.30
17	17.99	18.71	18.83	19.39	17.73	16.50	16.21	17.30	18.22	19.64	20.16	20.33
18	18.01	18.73	18.86	19.39	17.61	16.42	16.22	17.32	18.27	19.69	20.10	20.36
19	18.04	18.78	18.88	19.39	17.46	16.49	16.22	17.35	18.32	19.73	20.04	20.39
20	18.09	18.79	18.93	19.40	17.33	16.53	16.22	17.41	18.37	19.77	20.03	20.40
21	18.13	18.81	18.97	19.43	17.23	16.56	16.31	17.49	18.41	19.80	20.03	20.42
22	18.16	18.83	18.96	19.46	17.11	16.52	16.34	17.54	18.46	19.85	20.02	20.43
23	18.20	18.83	18.95	19.46	17.02	16.55	16.30	17.57	18.52	19.90	20.02	20.46
24	18.22	18.82	18.94	19.48	16.98	16.59	16.32	17.57	18.59	19.94	19.97	20.50
25	18.23	18.86	19.01	19.50	16.94	16.62	16.41	17.58	18.63	19.98	19.94	20.53
26	18.30	18.87	19.02	19.51	16.88	16.64	16.46	17.57	18.67	20.01	19.95	20.56
27	18.31	18.82	19.02	19.52	16.86	16.64	16.49	17.57	18.74	20.05	19.98	20.58
28	18.32	18.84	19.02	19.56	16.80	16.66	16.51	17.61	18.80	20.08	20.02	20.60
29	18.37	18.87	19.04	19.59	---	16.63	16.52	17.64	18.86	20.10	20.05	20.64
30	18.39	18.89	19.05	19.60	---	16.57	16.55	17.66	18.90	20.14	20.07	20.66
31	18.40	---	19.07	19.62	---	16.64	---	17.69	---	20.18	20.08	---
MEAN	17.98	18.68	18.94	19.35	18.30	16.58	16.32	17.22	18.24	19.59	20.14	20.31

WTR YR 1981 MEAN 18.47 HIGH 16.13 LOW 20.66

WAYNE COUNTY

313055081521901 Local number, 31L1.
LOCATION.--Lat 31°30'55", long 81°52'19", Hydrologic Unit 03070106, about 6 mi (9.6 km) south of Jesup near Penholoway Creek on Walker Creek.
Owner: Brunswick Pulp and Paper, Justice Mears #2.
AQUIFER.--Principal artesian aquifer.
WELL CHARACTERISTICS.--Drilled unused oil test well, diameter 6 in. (15.2 cm), depth 691 ft (210.6 m), cased to 587 ft (178.9 m), open hole.
DATUM.--Altitude of land-surface datum is 55 ft (17 m), from topographic map.
Measuring point: Top of 6 in. (15.2 cm) casing at land-surface datum.
REMARKS.--Well pumped and water quality sampled, August 2, 1978.
PERIOD OF RECORD.--February 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.30 ft (4.663 m) below land-surface datum, December 16, 1977; lowest, 29.23 ft (8.909 m) below land-surface datum, June 29, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.53	26.23	26.67	24.88	26.35	26.25	26.37	26.20	27.80	29.10	28.95	28.55
2	25.58	26.25	26.67	25.16	26.17	26.25	26.40	26.37	27.95	29.07	28.85	28.55
3	25.57	26.33	26.73	25.35	26.43	26.43	26.43	26.53	27.90	29.05	28.83	28.59
4	25.60	26.25	26.75	25.50	26.45	26.37	26.40	26.65	27.97	29.05	28.85	28.66
5	25.70	26.25	26.73	25.74	26.53	26.17	26.35	26.63	27.97	29.00	28.90	28.64
6	25.80	26.35	26.73	25.83	26.47	26.35	26.07	26.60	27.95	29.00	28.85	28.59
7	25.83	26.40	26.77	25.68	26.33	26.47	25.35	26.50	27.97	29.07	28.75	28.18
8	25.87	26.37	26.75	25.77	26.25	26.60	24.55	26.60	28.00	29.11	28.73	27.34
9	25.90	26.43	26.67	25.86	26.43	26.65	23.93	26.67	28.03	29.10	28.80	26.57
10	25.90	26.47	26.67	25.95	26.43	26.65	23.40	26.60	28.13	29.03	28.85	26.15
11	25.89	26.55	26.77	25.96	26.47	26.60	22.97	26.63	28.25	28.93	28.83	25.56
12	26.00	26.65	26.88	25.95	26.80	26.63	22.70	26.75	28.37	28.97	28.80	25.18
13	26.15	26.23	26.83	25.92	26.85	26.53	22.45	26.87	28.40	28.87	28.83	24.82
14	26.25	26.65	26.83	25.84	26.80	26.53	22.80	26.85	28.43	28.77	28.70	24.55
15	26.27	26.47	26.73	25.87	26.67	26.50	23.50	26.83	28.43	28.77	28.57	24.78
16	26.27	26.47	26.57	25.95	26.60	26.35	24.10	27.03	28.43	28.70	28.57	25.27
17	26.25	26.47	26.65	26.13	26.53	26.45	24.47	27.10	28.37	28.75	28.60	25.80
18	26.18	26.53	26.83	26.10	26.45	26.23	24.70	27.15	28.35	28.77	28.60	26.20
19	26.15	26.67	26.87	26.03	26.35	26.23	24.85	27.17	28.43	28.84	28.60	26.48
20	26.17	26.73	27.00	25.97	26.30	26.40	25.00	27.10	28.53	28.85	28.60	26.68
21	26.30	26.77	27.10	25.97	26.33	26.50	25.20	27.20	28.57	28.75	28.70	26.90
22	26.33	26.85	27.05	25.03	26.35	26.33	25.30	27.30	28.50	28.77	28.70	27.09
23	26.33	26.80	26.60	25.96	26.33	26.30	25.35	27.37	28.60	28.85	28.63	27.28
24	26.35	26.65	25.63	25.98	26.35	26.43	25.37	27.43	28.80	28.90	28.63	27.48
25	26.33	26.65	24.80	26.07	26.36	26.50	25.57	27.37	28.90	28.95	28.55	27.65
26	26.43	26.65	24.15	26.11	26.37	26.60	25.83	27.37	28.94	28.97	28.56	27.65
27	26.44	26.53	23.50	26.05	26.43	26.63	25.97	27.33	29.00	29.07	28.54	27.56
28	26.37	26.47	23.27	26.15	26.40	26.63	26.07	27.33	29.13	28.93	28.60	27.50
29	26.33	26.55	23.85	26.33	---	26.50	26.10	27.43	29.23	28.90	28.54	27.62
30	26.33	26.65	24.27	26.40	---	26.31	26.17	27.57	29.20	28.83	28.50	27.81
31	26.33	---	24.60	26.50	---	26.40	---	27.67	---	28.95	28.51	---
MEAN	26.09	26.51	26.13	25.87	26.45	26.44	24.99	26.97	28.42	28.92	28.69	26.99

WTR YR 1981 MEAN 26.88 HIGH 22.45 LOW 29.23

WAYNE COUNTY

313701081543501 Local number, 30L3.

LOCATION.--Lat 31°37'01", long 81°54'35", Hydrologic Unit 03070106, about 0.5 mi (0.8 km) west of Jesup city limits near intersection of Highway 341 and Sunset Drive.

Owner: Homer Johnson.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 4 in. (10.1 cm), depth 584 ft (178.0 m), cased to 472 ft (143.9 m), open hole.

DATUM.--Altitude of land-surface datum is 107 ft (33 m), from topographic map.

Measuring point: Floor of recorder shelter, 2.88 ft (0.878 m) above land-surface datum.

REMARKS.--Borehole geophysical survey conducted August 19, 1963. Water levels for period of missing recorder record, Sept. 29-30 were estimated.

PERIOD OF RECORD.--January 1964 to March 1967. February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 59.98 ft (18.282 m) below land-surface datum, April 19, 1964; lowest 85.27 ft (25.990 m) below land-surface datum, June 29, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81.37	81.70	82.50	80.10	82.03	82.00	82.20	82.13	83.75	85.13	84.60	84.10
2	81.35	81.80	82.45	80.50	81.70	82.05	82.20	82.33	83.87	85.05	84.55	84.13
3	81.25	81.90	82.35	80.82	82.00	82.23	82.25	82.53	83.87	84.95	84.45	84.18
4	81.20	81.93	82.50	80.99	82.15	82.17	82.17	82.57	83.95	84.95	84.47	84.21
5	81.30	81.97	82.47	81.32	82.25	82.00	82.05	82.63	83.95	84.90	84.50	84.23
6	81.45	82.07	82.47	81.35	82.23	82.17	81.30	82.60	83.93	84.97	84.50	84.04
7	81.57	82.17	82.53	81.34	82.05	82.35	79.85	82.43	83.93	85.02	84.37	83.06
8	81.65	82.20	82.53	81.49	81.93	82.43	78.55	82.57	83.95	85.05	84.37	81.58
9	81.63	82.27	82.52	81.56	82.15	82.50	77.67	82.60	83.95	85.07	84.40	80.48
10	81.65	82.33	82.55	81.62	82.20	82.55	77.05	82.47	84.10	84.87	84.45	79.69
11	81.67	82.43	82.65	81.57	82.23	82.53	76.65	82.53	84.25	84.70	84.45	79.08
12	81.77	82.53	82.70	81.52	82.57	82.53	76.40	82.73	84.35	84.67	84.43	78.67
13	82.00	82.50	82.67	81.49	82.65	82.45	76.20	82.83	84.37	84.57	84.45	78.35
14	82.10	82.40	82.67	81.48	82.55	82.40	77.05	82.80	84.37	84.50	84.23	78.13
15	82.07	82.25	82.55	81.50	82.37	82.37	78.35	82.80	84.40	84.40	84.07	78.67
16	82.05	82.25	82.30	81.60	82.35	82.23	79.40	83.00	84.35	84.35	84.13	79.67
17	81.97	82.25	82.45	81.75	82.27	82.35	80.07	83.05	84.20	84.45	84.20	80.55
18	81.95	82.30	82.65	81.74	82.20	82.13	80.43	83.10	84.07	84.53	84.27	81.12
19	81.93	82.50	82.20	81.65	82.17	82.05	80.65	83.07	84.35	84.53	84.20	81.55
20	81.95	82.47	82.80	81.62	82.07	82.23	80.83	83.03	84.47	84.50	84.25	81.94
21	82.10	82.60	82.90	81.52	82.15	82.33	80.87	83.13	84.40	84.43	84.30	82.27
22	82.07	82.73	82.85	81.58	82.10	82.17	80.90	83.23	84.40	84.45	84.20	82.52
23	82.10	82.67	81.83	81.57	82.03	82.07	81.07	83.30	84.60	84.53	84.10	82.70
24	82.10	82.47	80.00	81.60	82.03	82.25	81.17	83.17	84.83	84.60	84.00	82.94
25	82.13	82.40	78.70	81.73	81.98	82.33	81.43	83.10	84.97	84.65	83.95	83.10
26	82.23	82.40	77.90	81.83	82.07	82.43	81.73	83.26	85.02	84.63	84.02	83.04
27	82.23	82.27	77.27	81.80	82.13	82.50	81.93	83.20	85.07	84.60	84.02	82.88
28	82.06	82.23	77.30	81.85	82.07	82.43	82.01	83.17	85.20	84.57	84.00	82.74
29	81.99	82.27	78.40	82.03	---	82.27	82.07	83.25	85.27	84.55	84.02	82.80
30	81.95	82.43	78.80	82.15	---	82.12	82.07	83.43	85.20	84.53	84.00	82.82
31	81.87	---	79.52	82.25	---	82.25	---	83.57	---	84.60	84.06	---
MEAN	81.83	82.29	81.48	81.51	82.17	82.29	80.22	82.89	84.38	84.69	84.26	81.84

WTR YR 1981 MEAN 82.49 HIGH 76.20 LOW 85.27

WORTH COUNTY

313146083491601 Local number, 15L20.

LOCATION.--Lat 31°31'46", long 83°49'16", Hydrologic Unit 03110204, near water tank, behind VFW on U.S. Highway 82 east, Sylvester, Ga.

Owner: City of Sylvester.

AQUIFER.--Principal artesian aquifer.

WELL CHARACTERISTICS.--Drilled unused municipal well, diameter 18 in. (45.7 cm), depth 450 ft (137.2 m), cased to 212 ft (64.6 m), open hole.

DATUM.--Altitude of land-surface datum is 433 ft (132 m), from topographic map.

Measuring point: Floor of recorder shelter, 2.90 ft (0.884 m) above land-surface datum.

REMARKS.--Well pumped and sounded July 19, 1978. Borehole geophysical survey conducted June 5, 1975. Water levels for periods of missing recorder record, Oct. 9 to Nov. 17, Mar. 21 to Apr. 7, and Sept. 10-30 were estimated.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 191.50 ft (58.369 m) below land-surface datum, May 17, 1973; lowest, 201.59 ft (61.44 m) below land-surface datum, July 31, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	196.36	196.55	196.14	196.04	196.21	196.16	196.51	197.10	199.93	200.76	201.54	200.17
2	196.39	196.62	196.10	196.27	196.18	196.07	196.48	197.25	200.08	200.80	201.40	200.17
3	196.36	196.60	196.22	196.28	196.49	196.19	196.50	197.48	200.20	200.80	201.31	200.18
4	196.40	196.52	196.27	196.22	196.48	196.01	196.53	197.64	200.27	200.66	201.33	200.16
5	196.43	196.45	196.20	196.41	196.50	195.86	196.60	197.71	200.32	200.62	201.30	200.15
6	196.53	196.50	196.21	196.29	196.41	196.08	196.63	197.70	200.29	200.75	201.16	200.14
7	196.50	196.46	196.23	196.05	196.19	196.21	196.65	197.72	200.31	200.88	200.96	200.08
8	196.43	196.45	196.18	196.14	196.08	196.33	196.68	197.81	200.34	200.89	200.87	199.97
9	196.50	196.44	196.08	196.19	196.29	196.40	196.67	197.79	200.35	200.85	200.91	199.94
10	196.60	196.30	196.02	196.29	196.14	196.39	196.72	197.73	200.45	200.84	200.97	199.90
11	196.65	196.22	196.15	196.29	196.21	196.34	196.75	197.71	200.57	200.91	200.88	199.82
12	196.65	196.20	196.22	196.33	196.68	196.32	196.73	197.87	200.71	200.97	200.76	199.75
13	196.70	196.25	196.17	196.27	196.74	196.19	196.74	198.03	200.74	200.93	200.73	199.68
14	196.70	196.24	196.18	196.17	196.66	196.26	196.82	198.10	200.71	200.81	200.70	199.74
15	196.65	196.00	196.06	196.18	196.55	196.14	196.99	198.11	200.64	200.74	200.59	199.78
16	196.60	195.98	195.84	196.28	196.45	196.05	197.12	198.33	200.62	200.70	200.44	199.79
17	196.58	195.98	195.96	196.46	196.36	196.09	197.08	198.46	200.65	200.68	200.35	199.80
18	196.65	195.99	196.15	196.45	196.27	195.95	197.14	198.58	200.78	200.71	200.38	199.78
19	196.68	196.26	196.27	196.26	196.17	196.27	197.11	198.65	200.91	200.83	200.34	199.76
20	196.65	196.31	196.42	196.10	196.06	196.31	197.00	198.70	200.94	200.89	200.40	199.75
21	196.60	196.28	196.54	196.14	196.09	196.36	197.02	198.94	200.90	200.91	200.42	199.74
22	196.72	196.33	196.50	196.26	196.05	196.40	197.04	199.13	200.79	201.02	200.46	199.73
23	196.75	196.22	196.34	196.16	196.06	196.42	196.88	199.28	200.70	201.22	200.45	199.70
24	196.76	196.05	196.19	196.10	196.13	196.45	196.77	199.41	200.72	201.39	200.44	199.67
25	196.78	196.14	196.30	196.16	196.25	196.44	196.86	199.57	200.67	201.47	200.40	199.65
26	196.70	196.17	196.31	196.14	196.27	196.45	196.99	199.61	200.54	201.47	200.38	199.61
27	196.65	195.94	196.22	196.06	196.32	196.47	197.04	199.52	200.46	201.45	200.37	199.60
28	196.60	195.99	196.05	196.10	196.30	196.52	197.09	199.56	200.56	201.47	200.37	199.62
29	196.55	196.07	196.00	196.33	---	196.57	197.11	199.65	200.71	201.49	200.36	199.64
30	196.50	196.17	195.96	196.32	---	196.58	197.07	199.72	200.76	201.48	200.26	199.63
31	196.50	---	196.02	196.42	---	196.54	---	199.80	---	201.59	200.22	---
MEAN	196.58	196.26	196.18	196.23	196.31	196.28	196.84	198.47	200.55	201.00	200.69	199.84

WTR YR 1981 MEAN 197.95 HIGH 195.84 LOW 201.59

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	$2.54x10^{1}$	millimeters (mm)
	$2.54x10^{-2}$	meters (m)
feet (ft)	$3.048x10^{-1}$	meters (m)
miles (mi)	$1.609x10^{0}$	kilometers (km)
	Area	
acres	$4.047x10^{3}$	square meters (m^2)
	$4.047x10^{-1}$	square hectometers (hm^2)
	$4.047x10^{-3}$	square kilometers (km^2)
square miles (mi^2)	$2.590x10^{0}$	square kilometers (km^2)
	Volume	
gallons (gal)	$3.785x10^{0}$	liters (L)
	$3.785x10^{0}$	cubic decimeters (dm^3)
	$3.785x10^{-3}$	cubic meters (m^3)
million gallons	$3.785x10^{3}$	cubic meters (m^3)
	$3.785x10^{-3}$	cubic hectometers (hm^3)
cubic feet (ft^3)	$2.832x10^{1}$	cubic decimeters (dm^3)
	$2.832x10^{-2}$	cubic meters (m^3)
cfs-days	$2.447x10^{3}$	cubic meters (m^3)
	$2.447x10^{-3}$	cubic hectometers (hm^3)
acre-feet (acre-ft)	$1.233x10^{3}$	cubic meters (m^3)
	$1.233x10^{-3}$	cubic hectometers (hm^3)
	$1.233x10^{-6}$	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	$2.832x10^{1}$	liters per second (L/s)
	$2.832x10^{1}$	cubic decimeters per second (dm^3/s)
	$2.832x10^{-2}$	cubic meters per second (m^3/s)
gallons per minute (gal/min)	$6.309x10^{-2}$	liters per second (L/s)
	$6.309x10^{-2}$	cubic decimeters per second (dm^3/s)
	$6.309x10^{-5}$	cubic meters per second (m^3/s)
million gallons per day	$4.381x10^{1}$	cubic decimeters per second (dm^3/s)
	$4.381x10^{-2}$	cubic meters per second (m^3/s)
	Mass	
tons (short)	$9.072x10^{-1}$	megagrams (Mg) or metric tons